

Who we are...

Fiber Optic Center is pleased to provide you with Volume 1 of our first print catalogue, detailing many of the products and supplies that we offer. The next version will include more product categories, such as splicing equipment, connectors, cable/fiber and also a section of specialty products.

We stock a wide range of fiber-related and other high technology items. Like many companies that thrive over a number of years, we have carved out several areas of specialization and expertise for which we are known as the industry leader. Many catalogue items can be purchased from other suppliers, but a number of important factors make us the preferred choice for many of the world's fiber professionals.

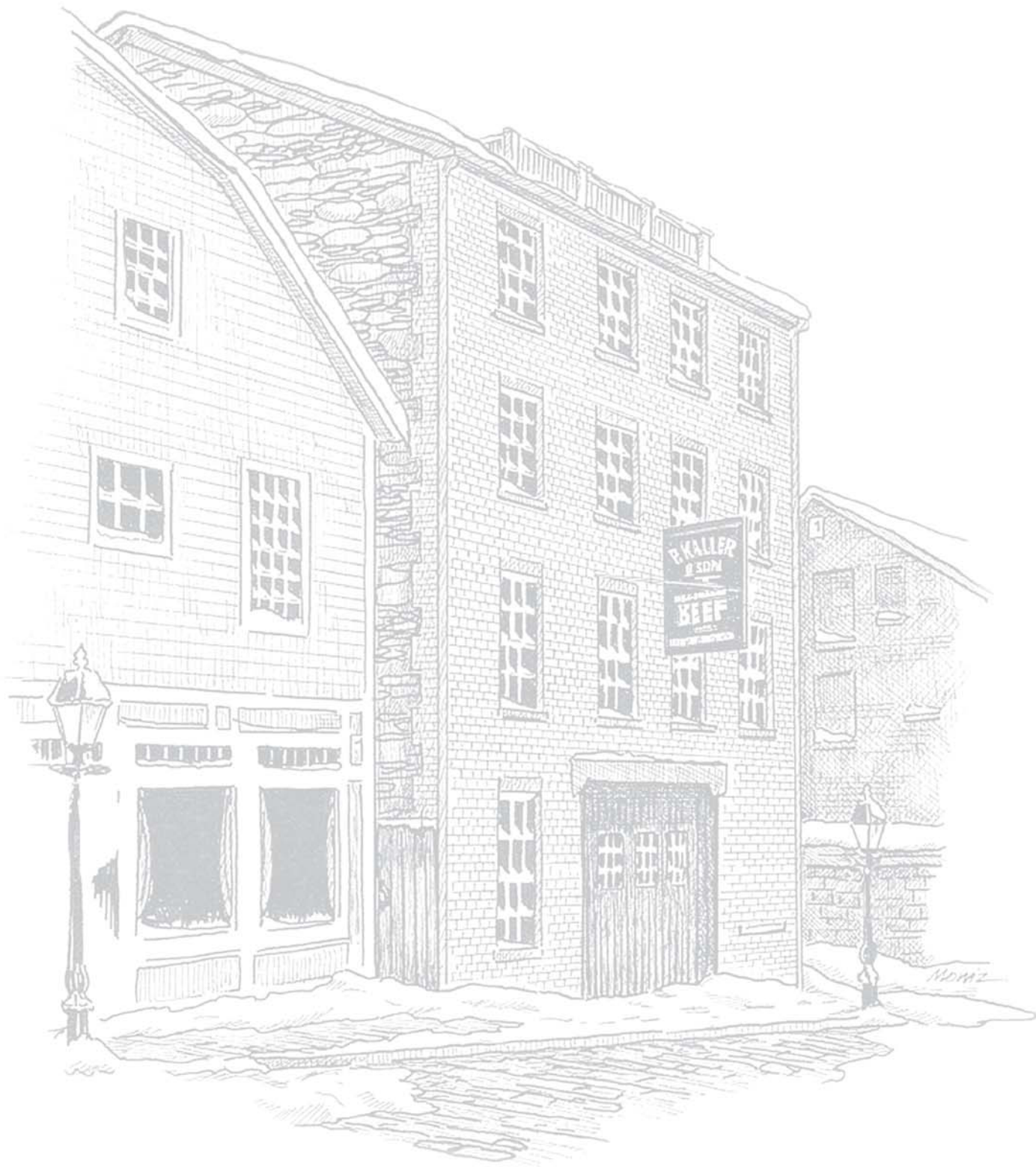
These include, but are not limited to:

- Our tenacious emphasis of offering only the highest quality products that have superior value, as opposed to selling lesser quality, cheaper alternatives and knock-offs, which, more likely than not, result in a greater need for reworks, missed delivery schedules, repair/upkeep costs, etc.
- Decades of practical cable assembly production experience by our technical experts who work daily with our customers improving their processes. We do not produce cable assemblies in-house, although our traveling technical personnel have set up termination lines throughout North, Central and South America, as well as several locations in the Far East, Eastern and Western Europe, the United Kingdom and Ireland.
- We offer the most advanced suite of fully automated and semi-automated polishing and termination equipment for fiber and cables, much of it (such as the Sagitta Comet and AngstromPol BFP polisher) available exclusively from Fiber Optic Center.
- Over 27 years of sourcing components, materials, equipment and supplies; We know what is available and where to get it, even if it's not already a stock item.
- We have the world's largest inventory of custom-hole-size SMA and other connectors, for use with large core fiber, with over 40 different hole sizes in stock.
- Emphasis on specialty applications, such as medical, spectroscopy, laser delivery, industrial, sensing, oil and gas, broadcasting, military and research, as well as telecom, datacom and CATV.
- Over twenty years as North American sales agent for SG Controls of Cambridge, England, the leading manufacturer of specialty fiber making equipment and systems. We are one of very few companies worldwide who can provide full turnkey optical fiber manufacturing facilities for specialty fiber, as well as standard telecommunication fibers. Specialty fiber companies, U.S. government and military research labs, and universities, have turned to SG Controls and Fiber Optic Center, because together, we provide the best combination of quality equipment, setup and subsequent support.
- Availability of adhesives, and specialty and optical monomers, oligomers, and polymers, in custom viscosities, colors, packaging and other features.
- Industry-leading customer service aimed at making the business part of high tech as friendly and painless as possible.

FIBER OPTIC CENTER INC.



Thank you for your consideration of Fiber Optic Center as the supplier for your fiber and other high tech needs. We hope you find our new catalogue useful, and welcome your suggestions to make it even better.

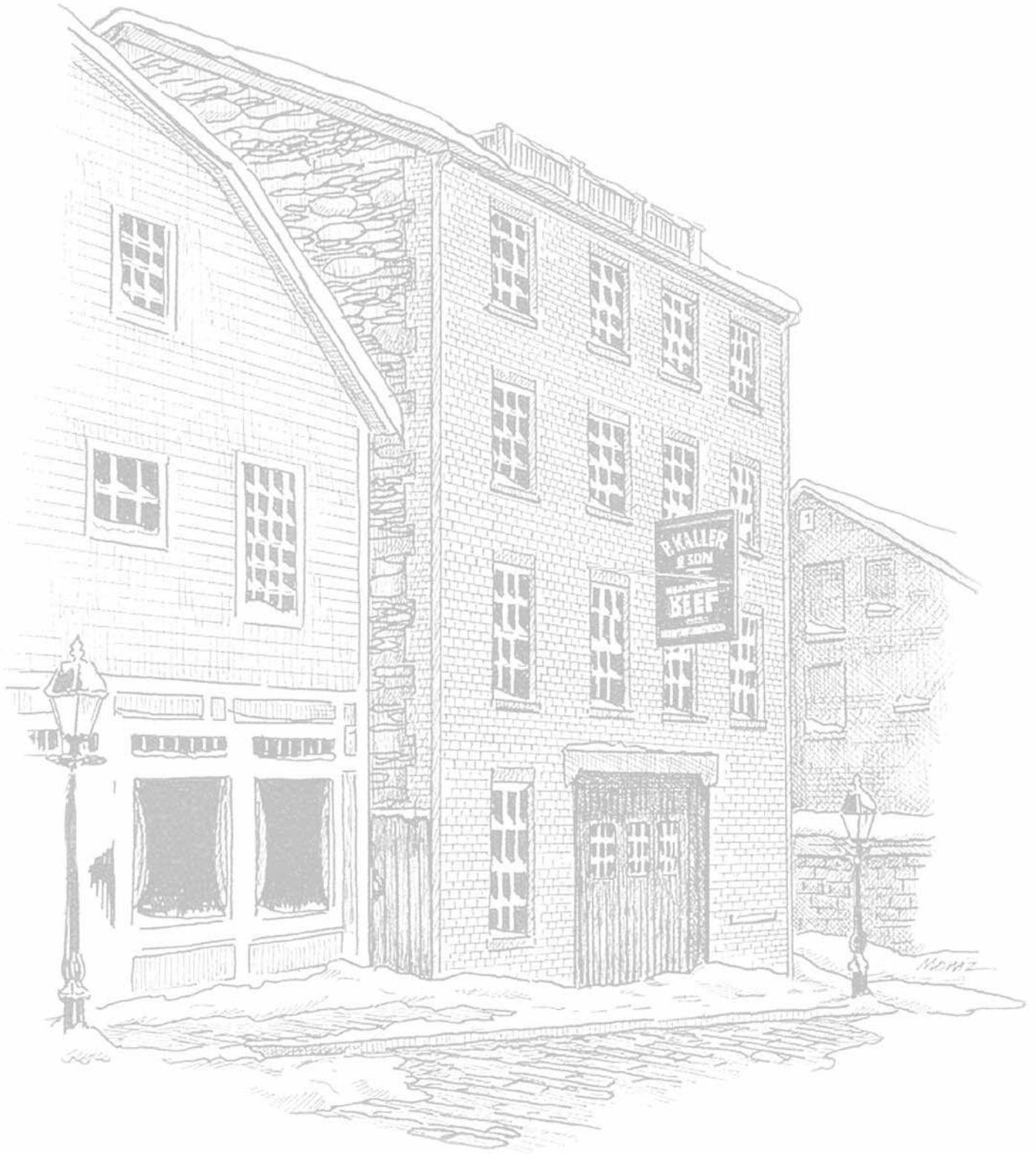


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Table of Contents

Fiber Optic Center's Volume 1 catalog caters to fiber optic assembly houses, large and small, as well as installers and field technicians. The four tabs split the information up into four major sections and are color coded to match the pages within the section. Each section is broken down into categories that are listed on the front page of each tab, with a brief description of each section on the tab's reverse side. Each page within a section has the section listed on the outer edge, along with the category and category page number listed at the bottom.

Consumables	Lapping Film	page	Cleaning Supplies	page		
	Diamond Film	A-2	Patchcord Cleaning	C-2		
	Final Polish Film	A-3	Backplane Ferrule / Bulkhead Cleaning	C-4		
	Aluminum Oxide Film	A-4	Fiber Optic Cleaning Fluids	C-6		
	Silicon Carbide Film	A-5	Lint Free Wipes	C-7		
	Flock Pile Abrasive & Cleaning Film	A-6	Pre-Saturated Wipes	C-8		
	Seikoh Giken Film	A-7	General Purpose Cleaning Swabs	C-9		
			Canned Air	C-10		
			Cleaning Kits	C-11		
	Epoxies & Adhesives	page				
	Room Temperature Cure Epoxy	B-2				
	Extended Use / Heat Cure Epoxy	B-3				
	Quick Cure Field Termination Adhesive	B-4				
UV Cure Adhesives	B-5					
Specialty Epoxy & Adhesives	B-9					
Production Equipment	Automated Cable Prep	page	Laser Scribing	page	Production Cleaning Systems	page
	Buffer & Coating Stripping	A-1	Sagitta Comet	C-1	Multi-Purpose Ultrasonic Cleaners	E-1
	Simplex Fiber Cable Prep	A-2			Connector Cleaning Systems	E-2
	Variable Cable Prep	A-3	Polishing Machines	page		
	Pneumatic Crimping Machine	A-4	Seikoh Giken Polishing Machines	D-2		
			Domaille Polishing Machines	D-9		
			Ultra Tec Polishing Machines	D-14		
			Bare Fiber Polishing Machines	D-16		
	Epoxy Preparation, Dispensing & Curing	page				
	Epoxy Preparation	B-1				
	Epoxy Dispensing	B-2				
	Epoxy Curing	B-5				
	UV Curing	B-7				
Hand Tools	Jacket & Buffer Strippers	page	Termination Tools	page		
	Standard Fiber Strippers	A-1	Crimp Tools	C-1		
	Thermal Buffer Strippers	A-3	Fiber Optic Scribes	C-2		
	Custom Fiber Strippers	A-5	Polishing Pucks	C-4		
	Jacket & Buffer Strippers	A-7	Safety Kits	C-5		
	Simplex Jacket Strippers	A-9	Work Mats	C-6		
	Multi-Fiber Jacket Strippers	A-10	Rubber Pads & Glass Plates	C-6		
	Buffer Tube Strippers	A-11	Cleaning / Piano Wire	C-6		
			Tweezers	C-7		
			Magnifying Loupe	C-7		
	Cable Cutters	page				
	Kevlar Shears	B-1				
	Heavy Duty Cable Cutters	B-3				
Ring Tools	B-4					
Sheath Strippers	B-5					
Splicer's Scissors & Knives	B-6					
Test & Inspection	Inspection Systems	page	Interferometers	page	Handheld Optical Measurement Devices	page
	Micro-Enterprises Inspection Systems	A-1	DORC Interferometers	E-1	Noyes Optical Loss Test Sets	G-1
	Westover Inspection Systems	A-5			Noyes Optical Light Sources	G-5
	Automated Scratch Analysis	page	Handheld Inspection Scopes	page	Noyes Optical Power Meters	G-7
	PVI Automated Scratch Analysis	B-1	Noyes Inspection Scopes	F-1	JDSU Inspection, Cleaning & Test Kits	G-9
			Micro Enterprises Inspection Scopes	F-3	Noyes Return/Loss Meters	G-12
			Westover Inspection Scopes	F-7	Noyes OTDRs	G-14
	Return/Loss Systems	page	TruView Inspection Scopes	F-9		
	KD Optics Return/Loss Systems	C-1	Westover Probe Scopes	F-10	Other Handheld Test Devices	page
	JGR Services Return/Loss Systems	C-2	Micro Enterprises Probe Scopes	F-14	Fault Identifiers	H-1
			Noyes Probe Scopes	F-16	Continuity Testers	H-2
	Optical Switches	page			Noyes Optical Fiber Identifiers	H-3
	JGR Services Optical Switches	D-1			Noyes Talk Sets	H-4
				Noyes Variable Attenuators	H-5	

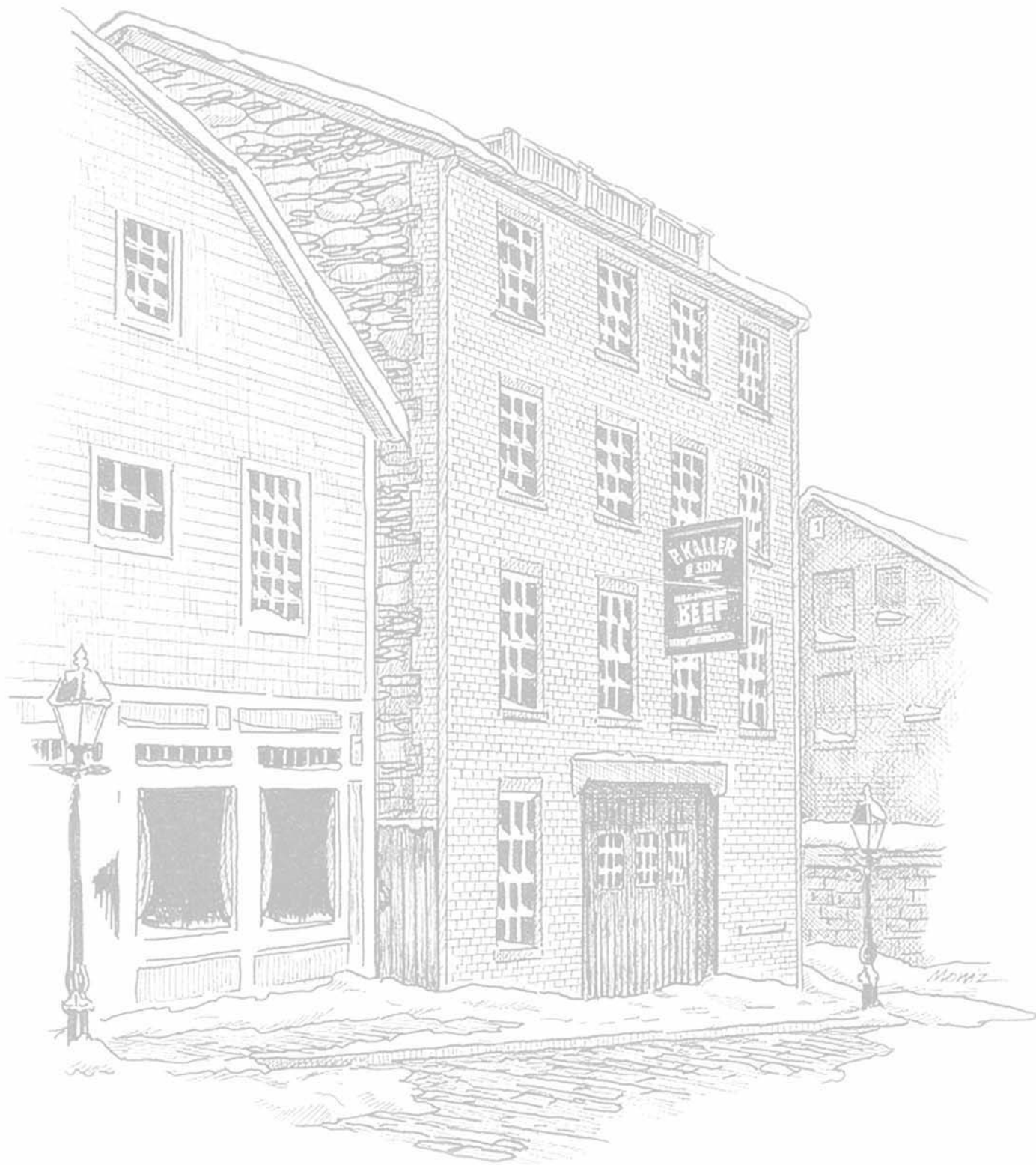


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Future Sections

In the interest of getting the first release of our catalog out as soon as possible, the following sections were not included, but are to be added in the near future. However, we have in-depth technical knowledge on all these items, and they are all currently available. If you would like more information please contact us at 800 473-4237, 508 992-6464 or visit our website at www.focenter.com.

Splicing & Accessories	Fusion Splicers		Splice Protection Sleeves	
	Single Fiber Core Alignment Single Fiber V-Groove Alignment Multi-Fiber V-Groove Alignment		Mechanical Splices	
	Automated Fiber Prep			
	Strip & Cleave Systems Window Stripping Fiber Re-coaters Specialty Systems			
Interconnect Components	Cleavers			
	High Precision Cleavers Pocket Cleavers			
	Standard Connectors, Adapters & Receptacles		Industrial & Broadcast Ruggedized Connectors	Splitters & Couplers
	Amphenol Seikoh Giken Molex Senko Fibersource		COTS M83522 COTS M29504/14/15 SMPTE 358M TFOCA II Molex LC2 Connectors	1x2 & 2x2 Couplers Tree Couplers PLC Optical Splitters WDMs
Fiber & Cable Management	SMA Connectors & Accessories		Attenuators	Terminators, Fuses & Loopbacks
	905 & 906 SMA Connectors High Power SMA Connectors Accessories		Fixed Attenuators Variable Attenuators Dynamic Attenuators / Power Limiters	Terminators Optical Fuses Loopbacks
	Quick Termination Connectors			
	AFL Tele. FAST Connector AFL Tele. FUSE Connect			
Specialty Products	Fiber			
	Standard Fiber Specialty Fiber			
	Cable			
	Indoor Indoor / Outdoor Outdoor			
	Managements			
	Cabinets & Enclosures Rack Mounts Reels, Guides & Cable Ties Breakout & Fanout kits Pulling Eyes Furcation Tubing			
	AngstromLink Optical Polymers		Vitrocom Glass Capillaries & Tubing	
	Adhera Rare Earth Solder		Ocean Optics Spectrometers	
	AngstromSphere Silca Spheres		The Light Brigade Educational Materials	
	Fiber Manufacturing Equipment			
	SG Controls Showmark Fiber Spooling Equipment			



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Fiber Optic Center Quality Policy

Since its inception in January of 1992, Fiber Optic Center, Inc. has provided fiber professionals and the fiber industry with only the highest quality components, systems and technology. Our supplier selection process begins with the long term commitment of the supplier to the product line.

From there, we look for:

- *Strong, demonstrated quality programs in place*
- *Innovative products*
- *Aggressive new product pipeline*
- *On-going technical support*
- *Customer service*

Fiber Optic Center, in turn, makes a long-term commitment to the supplier, and offers the entire product line, as opposed to cherry picking the largest selling or most popular part numbers. The long term nature of the relationships with our suppliers often means that we have first hand knowledge and history of quality issues related to specific parts, and close relationships with individuals at all levels within the supplier's company.

Because we do not manufacture any products on site, we do not perform our own quality testing. We are dependent on the manufacturer of the particular item to have appropriate quality procedures in place. Our certificates of conformance are based on corresponding certification from the manufacturer, rather than direct inspection in our facility. The suppliers of most products that we sell are ISO 9000 certified. When problems have arisen, formal Corrective Action Reports are completed, and recommendations are implemented by the supplier. The result is that we have few quality issues with the products we sell.

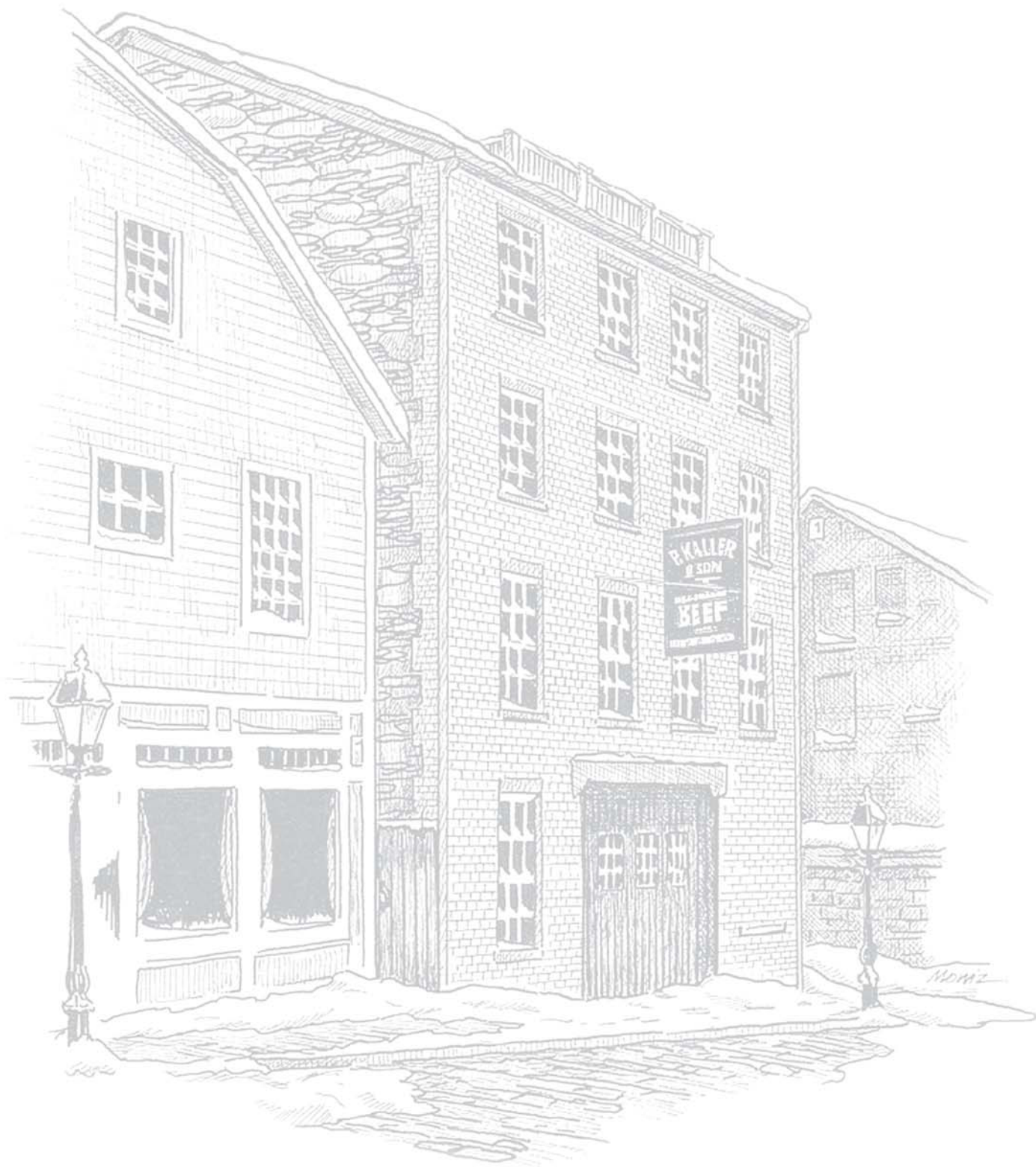
For the few items where we actually do some value added work (e.g., loading adaptors into patch panels), we have written quality procedures and forms in place, and trained quality inspectors who are not the production people.

For particular customers who require quality procedures that go beyond our standard efforts, we have put in place the required steps, along with equipment and personnel as needed, to meet these specialized quality standards.

Please contact us if you have questions or need further information. Thank you for your consideration.

Respectfully,

Neal Weiss
President, Fiber Optic Center
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Lapping Film



ÅNGSTRÖMLap®

The Most Widely Used Lapping Film in the World

Fiber Optic Center, the global supplier of ÅngströmLap, is an industry leader in developing high performance, cost effective polishing processes for some of the largest assembly houses in the world. We have or can produce an ÅngströmLap single mode or multimode process which is tailor-made for any machine, connector style and ferrule material on the market today, including multi-fiber MTs and MT-RJs. If you are having trouble with your process, our in-house process engineers can offer assistance at any time over the phone or can make on-site visits when necessary.

One of the most important decisions a cable assembly production, or process manager will make, is which lapping film to use. Without a consistent lapping film, production costs can not be controlled. Instead of quickly and efficiently fulfilling work orders, costly reworks will eat up both time and resources. Lapping film that only lasts a few cycles before it needs to be thrown away can also lead to a much higher per termination cost than a film that lasts up to 10, 20 or 30 cycles. Our SEQUOIA Diamond films are designed to last well over 10 cycles.

Achieving consistent results that meet the demanding technical specifications for single mode systems requires the optimization of many factors throughout the termination and testing process.

These include:

- suitable single mode fiber
- suitable epoxy
- proper mixing, application & curing of epoxy
- connector quality & tolerances
- pressure & time of polishing at each step
- lapping film quality & consistency
- lapping film grit sizes & materials
- polishing solutions
- adapter quality & tolerances
- calibration & quality of test instruments and reference cables
- test methods & conditions
- overall cleanliness
- specific cleaning procedures

FOC can supply detailed polishing instructions for most commercially available fiber optic polishing machines. Please contact us for details.

Fiber Optic Center offers lapping film in the following areas;

- Diamond Film
- Final Film
- Aluminum Oxide Film
- Silicon Carbide Film
- Abrasive, Coated Flock Pile Film
- Cleaning Film (Non-abrasive Flock Pile Film)
- Seikoh Giken Film

Special Note on PSA - Pressure Sensitive Adhesive

Pressure Sensitive Adhesive is only recommended when it is completely necessary. Once the film is stuck to the polish surface, it cannot be removed and reused. The adhesive also creates a potential and likely problem of debris adhering to the film that cannot be removed. Any debris that comes in contact with the fiber may cause a scratch. PSA will also increase the cost of the lapping film.

The films shown here are typical stock items. However, if you do not find the right size/material configuration, including center holes or PSA, to fit your application, we may already have it or we can have it manufactured for you. Please contact Fiber Optic Center with any request.

Diamond Film



SEQUOIA™ Long Life Diamond Film

Diamond lapping films cut and polish the hard ceramic ferrules and the softer fibers close to the same rate, easily controlling fiber undercut or protrusion. Diamond also helps assure the ferrule geometries meet the Telcordia GR 326 version 3 specifications, and leave the ferrule in a condition ready for the final polish film. Diamond is always recommended for the intermediate steps of machine polishing of single mode or multimode ceramic connectors, and for single mode hand polishing of ceramic connectors. When stopping at a diamond of 1um or less, a good surface finish results with great geometries, but with a return loss of -35 dB at best. If back reflection of -55 dB or better is required, see our Final Polish Films.

SEQUOIA is the longlife diamond film which offers twice the working life of standard diamond films, therefore cutting your overall diamond lapping film consumables cost in half. During the manufacturing process, proprietary quality control steps are implemented, ranging from raw materials selection to final QC and testing. SEQUOIA is clearly at a level above all other diamond films available today.

ÅngströmLap SEQUOIA Diamond Film - Sold per sheet

Grit	2" Disk	2.75" Disk	110mm Disk	4" Disk	4" Disk PSA	Color
30 µm	--	--	--	D30RGO403N1	D30AR403P1	Green
15 µm	--	--	--	D15RGO403N1	D15RGO403P1	Orange
9 µm	--	--	D9AT1103N1	--	D9RRE403P1	Blue
5 µm	D5BF203N1	D5BF273N1	D5BF110N1	D5BF403N1	D5BF403P1	Brown
3 µm	D3BF203N1	--	D3AT1103N1	D3AT403N1	D3AT403P1	Pink
1 µm	D1CT203N1	D1CT273N1	D1CT1103N1	D1CT403N1	D1CT403P1	Purple
1 um*	--	D1KT273N1	D1KT1103N1	D1KT403N1	--	Purple
0.5 µm	--	--	D05CF1103N1	D05CF403N1	D05FN403P1	Light Grey
Grit	5" Disk	3x4" Sheet	6x6" Sheet	8" Disk	9x11" Sheet	Color
30 µm	D30AR503N1	--	D30AR663N1	D30AR803N1	D30AR913N1	Green
15 µm	D15RGO503N1	--	D15AR663N1	D15RGO803N1	--	Orange
9 µm	D9AT503N1	--	--	--	D9AT913N1	Blue
5 µm	D5BF503N1	D5RGO343N1	D5BF663N1	D5BF803N1	D5BF913N1	Brown
3 µm	D3AT503N1	D3RRE343N1	D3AT663N1	--	D3RGE913N1	Pink
2 um	D2CT503N1	--	--	--	--	Tan
1 µm	D1CT503N1	D1RGO343N1	D1CT663N1	D1CT803N1	D1CT913N1	Purple
1 um*	D1KT503N1	--	D1KT663N1	--	--	Purple
0.5 µm	D05CF503N1	--	--	--	D05CF913N1	Light Grey

* Second generation SEQUOIA film

The films shown here are typical stock items. However, if you do not find the right size/material configuration, including center holes or PSA, to fit your application, we may already have it or we can have it manufactured for you. Please contact Fiber Optic Center with any request.

Final Polish Film



Final Polish Film

When a return loss of -55dB or better is needed with a controlled amount of undercut or protrusion, a special final polish film is required. This film maintains the geometry of the ferrule and improves the return loss and surface quality.

The following final polish films use silicon dioxide material and will polish the ceramic ferrule and glass fiber near the same rate. These films require only distilled water, and do not need messy slurries to meet back-reflection of -55dB or better for UPC, and fiber heights compliant with IEC Telcordia specifications.

ÅngströmLap SEQUOIA FPF is the latest final polish film to come from the ÅngströmLap line of films. It was developed to reduce single mode assembly production consumables cost while maintaining the most stringent manufacturing processes in the industry; therefore, lot-to-lot product consistency is assured, enabling you to achieve uniform precision polishes, keeping yields at their maximum. SEQUOIA FPF outperforms the rest, at a price that's lower than you would expect.

Single Mode Final Polish Films

Type	2" Disk	2.75" Disk	4" Disk	5" Disk	6x6" Sheet
ÅngströmLap SEQUOIA FPF	--	SEQFPF273N100	SEQFPF403N100	SEQFPF503N100	SEQFPF663N100
ÅngströmLap GOLD	ALG15XY203N100	ALG15XY273N100	ALG15XY403N100	ALG15XY503N100	ALG15XY663N100
NTT FOS-01	FOS-01/2	--	FOS-01/4	FOS-01	FOS-01/6X6
NTT FOS-22	--	--	--	FOS-22	--
Seikoh Giken XF	--	XF07	KJW101530G	XF5D	--
Seikoh Giken HF	--	HF07	HF4D	HF5D	--

The above films are recommended for optimum, single mode and multimode performance but for a more economical, multimode process, the following Aluminum Oxide films from ÅngströmLap may be substituted as final films.

Multimode Final Polish Films

Grit	2" Disk	2.75" Disk	3x6" Sheet	3x6" Sheet PSA	Color	
0.5 µm	--	AO05F273N100	AO05F363N100	AO05F363P100	White	
0.3 µm	CA03F203N100	CA03T273N100	CA03F362N100	CA03T363P100	Light Blue	
Grit	4" Disk	4" Disk PSA	5" Disk	5" Disk PSA	Color	
0.5 µm	AO05F403N100	AO05F403P100	AO05F503N100	AO05F503P100	White	
0.3 µm	CA03F402N100	CA03F402P100	CA03F502N100	CA03T503P100	Light Blue	
Grit	110mm Disk	6x6" Sheet	8" Disk	9x11" Sheet	12" Disk PSA	Color
0.5 µm	--	--	AO05F803N100	AO05F913N100	--	White
0.3 µm	CA03F1102N100	CA03T663N100	CA03F802N100	CA03T913N100	CA03T123P50	Light Blue

The films shown here are typical stock items. However, if you do not find the right size/material configuration, including center holes or PSA, to fit your application, we may already have it or we can have it manufactured for you. Please contact Fiber Optic Center with any request.

Aluminum Oxide Film



Aluminum Oxide Film

When diamond film is not needed, like in many multimode applications, aluminum oxide is recommended. Some aluminum oxides can even be used as the final polish. The 0.5um and 0.3um will produce return losses of -50 dB or better, but because they cut the glass at a much quicker rate than the ceramic, undercut may occur. See Final Polish Films for the best final polish film options and see Silicon Carbide Films for more aggressive epoxy and glass removal.

ÅngströmLap Aluminum Oxide Film - Sold in packs of 100 - 12" film in packs of 50

Grit	2" Disk	2.75" Disk	3x6" Sheet	3x6" Sheet PSA	Color
30 µm	--	--	AO30F363N100	AO30F363P100	Dark Purple
16 µm	--	--	AO16F363N100	--	Orange
12 µm	--	AO12F273N100	AO12F363N100	AO12F363P100	Red
9 µm	--	--	AO9F363N100	--	Green/Blue
5 µm	--	--	AO5T363N100	AO5T363P100	White
3 µm	--	--	AO3T363N100	AO3T363P100	Yellow
1 µm	--	--	AO1T363N100	AO1T363P100	Light Pink
0.5 µm	--	AO05F273N100	AO05F363N100	AO05F363P100	White
0.3 µm	CA03F203N100	CA03T273N100	CA03F362N100	CA03T363P100	Light Blue (F) Light Green (T)

Grit	4" Disk	4" Disk PSA	5" Disk	5" Disk PSA	Color
30 µm	AO30F403N100	AO30F403P100	AO30F503N100	--	Dark Purple
16 µm	AO16F403N100	AO16F403P100	AO16F503N100	AO16F503P100	Orange
12 µm	--	AO12F403P100	AO12F503N100	AO12F503P100	Red
9 µm	AO9F403N100	AO9F403P100	AO9F503N100	AO9F503P100	Green/Blue
5 µm	AO5T403N100	AO5T403P100	AO5T503N100	AO5T503P100	White
3 µm	AO3T403N100	AO3T403P100	AO3T503N100	AO3T503P100	Yellow
1 µm	AO1T403N100	AO1T403P100	AO1T503N100	AO1T503P100	Light Pink
0.5 µm	AO05F403N100	AO05F403P100	AO05F503N100	AO05F503P100	White
0.3 µm	CA03F402N100	CA03F402P100	CA03F502N100	CA03T503P100	Light Blue (F) Light Green (T)

Grit	110mm Disk	6x6" Sheet	8" Disk	9x11" Sheet	12" Disk PSA	Color
30 µm	--	--	AO30F803N100	AO30F913N100	AO30F123P50	Dark Purple
16 µm	--	AO16F663N100	AO16F803N100	AO16F913N100	--	Orange
12 µm	--	--	AO12F803N100	AO12F913N100	AO12F123P50	Red
9 µm	--	--	--	AO9F913N100	AO9F123P50	Green/Blue
5 µm	--	--	AO5T803N100	AO5T913N100	AO5T123P50	White
3 µm	AO3T1103N100	AO3T663N100	AO3T803N100	AO3T913N100	AO3T123P50	Yellow
1 µm	--	AO1T663N100	AO1T803N100	AO1T913N100	AO1T123P50	Light Pink
0.5 µm	--	--	AO05F803N100	AO05F913N100	--	White
0.3 µm	CA03F1102N100	CA03T663N100	CA03F802N100	CA03T913N100	CA03T123P50	Light Blue (F) Light Green (T)

Specifications may change without notice

LAPPING FILM / A-4

Silicon Carbide Film



Silicon Carbide Film

As a more aggressive material, Silicon Carbide is often recommended over Aluminum Oxide for epoxy and glass removal, and is not commonly used for the later steps in the polishing process.

ÅngströmLap Silicon Carbide Film - Sold in packs of 100 - 12" film in packs of 50

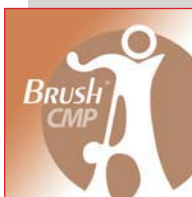
Grit	2" Disk	2.75" Disk	3x6" Sheet PSA	Color
16 µm	--	--	SC16F363P100	Purple/Grey
9 µm	--	SC9T273N100	SC9T363P100	Blue/Grey
5 µm	--	--	--	Yellow/Grey
3 µm	SC3F203N100	--	SC3F363P100	Grey
1 µm	SC1F203N100	--	SC1F363P100	Grey

Grit	4" Disk	4" Disk PSA	5" Disk	5" Disk PSA	Color
30 µm	SC30F403N100	SC30F403P100	SC30F503N100	SC30F503P100	Green/Grey
16 µm	SC16F403N100	SC16F403P100	SC16F503N100	SC16F503P100	Purple/Grey
9 µm	SC9T403N100	SC9T403P100	SC9T503N100	SC9F503P100	Blue/Grey
5 µm	SC5F403N100	SC5F403P100	SC5F503N100	SC5F503P100	Yellow/Grey
3 µm	SC3F403N100	SC3F403P100	SC3F503N100	SC3F503P100	Grey
1 µm	SC1F403N100	--	SC1F503N100	--	Grey
0.5 µm	--	--	SC05F503N100	--	Grey

Grit	6x6" Sheet	8" Disk	9x11" Sheet	12" Disk PSA	Color
40 µm	--	SC40F803N100	--	--	Green/Grey
30 µm	SC30F663N100	SC30F803N100	SC30F913N100	SC30F123P50	Green/Grey
16 µm	SC16F663N100	SC16F803N100	SC16F913N100	SC16F123P50	Purple/Grey
9 µm	--	SC9T803N100	SC9T913N100	--	Blue/Grey
5 µm	SC5F663N100	SC5F803N100	SC5F913N100	SC5F123P50	Yellow/Grey
3 µm	--	SC3F803N100	--	SC3F123P50	Grey
1 µm	--	SC1F803N100	--	SC1F123P50	Grey

The films shown here are typical stock items. However, if you do not find the right size/material configuration, including center holes or PSA, to fit your application, we may already have it or we can have it manufactured for you. Please contact Fiber Optic Center with any request.

Flock Pile Abrasive & Cleaning Film



ÅNGSTRÖMBRUSH™ CMP

Chemical Mechanical Polish Abrasive Flock Pile Film

The ÅngströmBrush CMP (chemical mechanical polish) system is an innovative system of polishing, that can polish irregular glass surfaces to a mirror finish consistently, time after time. This system uses an abrasive pad with 3-5/mm fibers coated with aluminum oxide, silicon carbide, and cerium oxide. These tiny fibers behave like a smaller, less aggressive abrasive, because they are allowed to move away from, or around the work surface. It resists being torn by sharp objects that protrude from some work surfaces. When used in conjunction with our specialty cleaning pads, this system provides controlled fiber protrusion and excellent surface quality. Other polishing systems for creating protrusion on a glass-filled polymer ferrule are available that include the use of slurries with films.

ÅngströmLap Abrasive Flock Pile Film - Sold in packs of 50

Grit	Material	5" Disk	5" Disk PSA	Color
16 µm	AlOx	AO16MFPS502N50	--	Brown
9 µm	SC	SC9MFPS502N50	--	Brown
5 µm	AlOx	AO5PBN502N50	--	Brown
3 µm	SC	--	SC3PWBH502P50	Grey
2 µm	AlOx	AO2PBN502N50	--	Brown
1 µm	AlOx	--	AA1MFPS502P50	Brown
1 µm	CeOx	CE1PBN502N50	CE1MFPS502P50	Brown



ÅNGSTRÖMBRUSH™

Non-Abrasive Flock Pile Cleaning Film

ÅngströmBrush cleaning films can be used in between each polishing step or simply after the final polish step. The tiny fibers on these multiuse films help remove particles from the connector end face and decrease chances of cross contamination, thus increasing finish quality and overall process yield.

ÅngströmLap Abrasive Flock Pile Film - Sold in packs of 50

Type	5" Disk	6x6" Sheet	12" Disk
ÅngströmBrush	ABR60NC502N1	ABR60NC662N1	--
ÅngströmBrush w/ PSA*	ABR60NC502P1	ABR60NC662P1	ABR60NC1202P1

The films shown here are typical stock items. However, if you do not find the right size/material configuration, including center holes or PSA, to fit your application, we may already have it or we can have it manufactured for you. Please contact Fiber Optic Center with any request.

Seikoh Giken Film



The 5" disk is the standard size for the Seikoh Giken SFP-550, SFP-520, SFP-510, SFP-500, the Seiko Instruments OFL-15 and OFL-16 machines and some other fiber polishing machines.

The 4" disk is the standard size for the Seikoh Giken SFP-100D.

The 2.75" disk is the standard size for the Seikoh Giken SFP-70D and SFP-70D2 polishing machines.

Standard Polishing Film

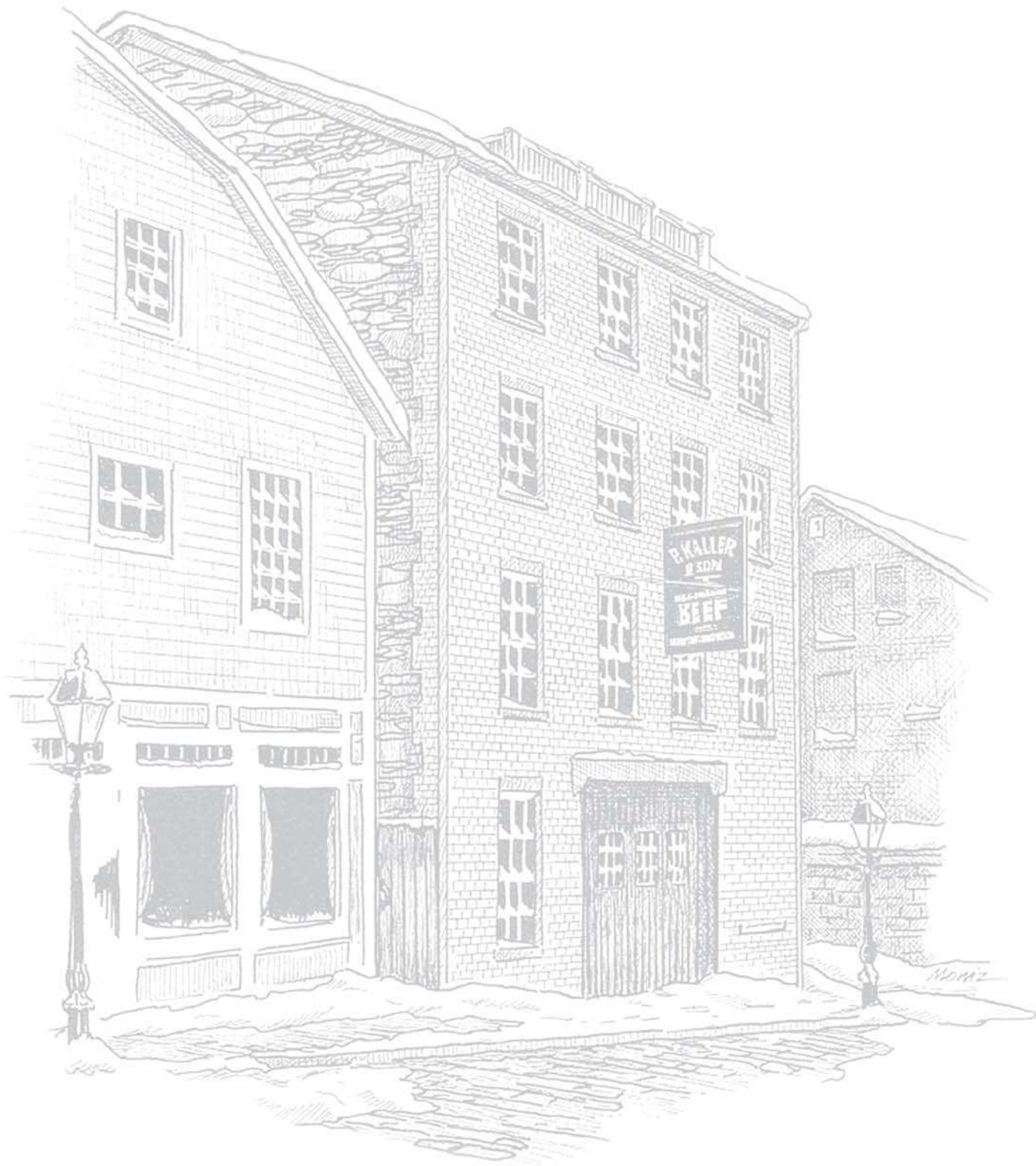
Grit	5" Disk	4" Disk	2.75" Disk	Color
Diamond				
9 μm	DR5D-9u	DR4D-9u	DR07-9u	Purple
5 μm	DG5D-5u	DG4D-5u	--	Orange
3 μm	DH5D-3u	DH4D-3u	DH07-3u	Lime Green
1.5 μm	DI5D-1.5u	DI4D-1.5u	DI07-1.5u	Yellow
Final Film				
--	XF5D	HF4D	HF07	Clear
Aluminum Oxide				
5 μm	AR5D	--	AR07	White
1 μm	SF5D	--	SF07	White
Silicon Carbide				
30 μm	GA5D	GA10	GA07	Dark Green
Cleaning Film				
--	CF5D	CF4D	CF07	--
Spacer Film				
50 μm	15303-5	SP10-005	SP07-005	--
25 μm	15303-2.5	--	--	--

MT Polishing Film

Grit	Part Number	Material	Description	Color
--	BR5D	--	MT Middle Polish (sponge material)	Brown
15 μm	GC5D	Silicon Carbide	Adhesive Removal	Dark Green
1.5 μm	GI5D	Silicon Carbide	First Polish	Grey
--	GK5D	Silicon Carbide	Second Polish	--
--	BX5D	--	MT Final Polish (felt)	Black
0.05 μm	AO5D	Aluminum Oxide	MT Final Polish	Yellow

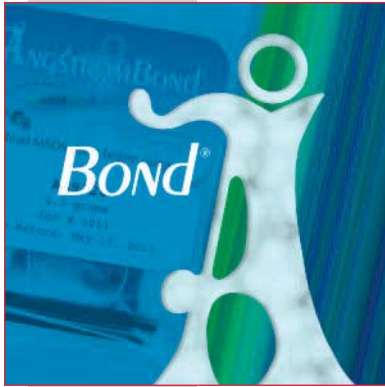
Polishing Oil & Slurry

Part Number	Description	Part Number	Description
PL50/1	Polishing Oil, 500cc Bottle.	PL-AMT	Medium MT Polishing Slurry, 200g Bottle.
PL-MMT	Coarse MT Polishing Slurry, 200g Bottle.	PL-MT	Fine MT Polishing Slurry, 80g Bottle.



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Epoxy & Adhesives



ÅNGSTRÖMBOND®

Advanced Polymers for High-Tech Applications

Choosing the correct adhesive for an application is critical and ÅngströmBond® premium quality adhesives offer a wide range of solutions for any requirement. Adhesives are often generalized and end up being used in the wrong application resulting in disastrous effects. One adhesive does not work well in all applications.

ÅngströmBond® offers its own line of single and multi component specialty adhesive systems as well as systems from your favorite adhesive manufacturers. Most material can be supplied in easy to use 2-part packets, premixed and frozen syringes or cartridges, jars, vials, quarts, gallons or other specialty packing as required.

2-Part Packets (bi-packs)

Small, 2-part packets promote minimal waste but are also key to ensuring proper mix ratios, as mix ratio is essential to epoxy performance. If the ratio is off by even a small amount, failures may occur immediately or at anytime during operation. All our packaging maintains a strict mix ratio of at least +/- 1%. Our packaging materials are also of the highest quality to ensure that the adhesives will remain consistent throughout their shelf life.

Premixed & Frozen

Our premixed and frozen adhesives loaded in syringes or cartridges are accurately pre-weighed, de-aired and flash frozen, so you do not have to do it. All of these steps ensure maximum adhesive performance, while flash freezing guarantees the maximum working time. Using premixed and frozen adhesives greatly reduces the potential for errors, and the end result is simply a safer material that yields increased quality at lower costs.

Epoxy Dispensing Machines

When using an automatic dispensing machine, further costs can be saved and product consistency improved with either the pre-weighed packets or the premixed and frozen packages. A system can be devised which can reduce operator variability to ensure the same amount of adhesive is injected each time. The unit will also decrease the repetitive motion that can sometimes lead to Carpal Tunnel Syndrome. Premixed and frozen can be packaged in an automatic cartridge that fits your dispensing machine, thus adding to your savings.

A Solution to Any & All Epoxy Related Problems

Our goal is to supply the best possible material for your application. By using ÅngströmBond® supplied material, you can minimize the typical adhesive related problems outlined below.

- Defective Epoxy
- Wrong Epoxy for the Application
- Incorrect Mix Ratio by Packager
- Incorrect Mix Ratio by User
- Expired Shelf Life
- Use Beyond Working Life
- Inappropriate Cure Schedule
- Inadequate Packaging Affects Chemistry
- Improper Storage (temp, light)
- Incomplete Dispensing into Substrate
- Inappropriate or Defective Dispensing Equipment
- Improper Cleaning of Epoxy Work Surfaces
- Skin Reactions (Dermatitis)
- Unavailability - Not in Stock

Fiber Optic Center offers Epoxies & Adhesives in the following areas. Please contact us with your application and we will be happy to find you the appropriate material.

- Room Temperature Cure
- Extended Use / Heat Cure
- Quick Cure Field Termination Adhesives
- UV Cure Adhesives
- Specialty Adhesives

Room Temperature Cure Epoxy



Two-Part Room Temperature Cure Epoxy

Low stress epoxies that can be cured overnight at room temperature or faster with mildly elevated temperatures. There is a room temperature cure epoxy excellent for any type of termination.

Single Mode and Multimode Terminations

Part Number	Cured Color	Viscosity	Working Time	Cure Schedules		
				25°C	65°C	90°C
AB9112-2.5G*	Dark Blue	2000 cps	40 Minutes	18 h	1 h	15 m
AB9113SC-2.5G	Dark Blue	2000 cps	20 - 30 Minutes	18 h	1 h	15 m
0151-2.5G	Clear	400 - 1000 cps	30 Minutes	1-3 days	2 h	1.5 h
0151BLUE-2.5G	Dark Blue	400 - 1000 cps	30 Minutes	1-3 days	2 h	1.5 h

*Mil Spec Approved

MT-RJ and MT Terminations

Part Number	Cured Color	Viscosity	Working Time	Cure Schedules		
				25°C	65°C	90°C
AB9001MT-2.5G	Dark Blue	55K - 65K cps	30 Minutes	18 h	1 h	15 m
AB9001MTUP-2.5G	Clear	55K - 65K cps	30 Minutes	18 h	1 h	15 m
AB9112-2.5G*	Dark Blue	2000 cps	40 Minutes	18 h	1 h	15 m

*Mil Spec Approved

Plastic Fiber Terminations

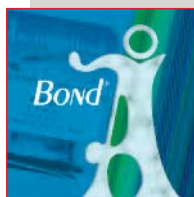
Part Number	Cured Color	Viscosity	Working Time	Cure Schedules	
				25°C	65°C
AB9110LV-2.5G	Clear	500 cps	60 Minutes	18 h	1 h

Most materials can be supplied in easy to use 2-part packages, premixed and frozen syringes or cartridges, jars, vials, quarts, gallons or other specialty packaging as required. Please contact FOC for information.

Specifications may change without notice

EPOXY & ADHESIVES / B-2

Extended Use / Heat Cure Epoxy



ANGSTRÖMBond®

Two-Part Extended Use / Heat Cure Epoxy

Extended Use / Heat Cure Epoxies allow for long working times but can also have fast cure times when used with a heat source. Other benefits include resistance to high temperatures, and high bond strengths. The disadvantage to heat cure systems is that they can cause stress during the curing process and can cause fiber core cracking and pistoning in multimode connectors. **AB9320** addresses this problem with its unique formulation as a low stress, heat cure epoxy and delivers excellent performance in both multimode and single mode applications.

Single Mode and Multimode Terminations

Part Number	Cured Color	Viscosity	Working Time	TG	Cure Schedules	
					80°C	100°C
AB9320-2.5G*	Blue	900 cps	1.5 hours	124 °C	30-120 m	10-30 m
AB9328-2.5G	Blue	2000 cps	1.5 hours	124 °C	30-120 m	10-30 m

*NASA Approved

Single Mode Terminations

Part Number	Cured Color	Viscosity	Working Time	TG	Cure Schedules	
					100°C	150°C
AB9123-2.5G	Red	2000 cps	3 - 4 hours	120 °C	5 m	1 m
AB9123BLUE-2.5G	Blue	2000 cps	3 - 4 hours	120 °C	5 m	1 m
ET353ND-2G	Red	2000 cps	3 - 4 hours	120 °C	5 m	1 m
ET353ND-4G	Red	2000 cps	3 - 4 hours	120 °C	5 m	1 m
ET353NDBLK-2.5G	Black	2000 cps	3 - 4 hours	120 °C	5 m	1 m
ET353NDT-2.5G	Dark Amber	9000 - 15000 cps	4 hours	120 °C	5-10 m	1 m
AB9119-2.5G*	Red	2000 cps	2 hours	105 °C	5 m	1 m
ET383ND-2.5G	Red/Amber	4500 cps	8 hours	120 °C	15 m	5 m

*NASA Approved

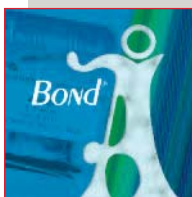
Most materials can be supplied in easy to use 2-part packages, premixed and frozen syringes or cartridges, jars, vials, quarts, gallons or other specialty packaging as required. Please contact FOC for information.

Specifications may change without notice

EPOXY & ADHESIVES / B-3

CONSUMABLES

Quick Cure Field Termination Adhesives



ÅNGSTRÖMBond®

Two-Part Quick Cure Field Termination Adhesive Kits

Field termination adhesives, sometimes referred to as "anaerobic adhesives", are easy to use and very fast without the use of heat. With most fiber optic terminations, the two parts of the epoxy are mixed together and then injected into the connector. However, with the following systems, the adhesive is injected into the connector by itself without the need for any mixing. Then, just prior to insertion, the fiber is dipped in the primer so it activates the adhesive as it slides through the connector. Once activation occurs, connectors are ready to polish in as little as 30 seconds.

AB101 is a traditional anaerobic system which will behave similar to many of the other adhesive/primer, field termination systems that are currently on the market.

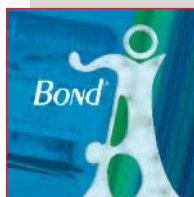
AB202 is an exclusive ÅngströmBond® black adhesive that has all the benefits of a traditional anaerobic system without any of the drawbacks. The process in which you apply **AB202** is exactly the same as **AB101** but because it is NOT anaerobic it will cure on its own over time. True anaerobic systems will only cure in the absence of oxygen or if it comes in contact with the primer so there is always potential for uncured adhesive when using such systems. **AB202** also has the distinction of being U.S. Navy approved.

Ordering Information

Part Number	Cured Color	Working Time	Kit
AB101-10mL	Clear Amber	30 seconds	10 ml bottle of adhesive 2 oz. bottle of primer
AB202-20mL*	Black	2-3 minutes	20 ml bottle of adhesive 3 oz. bottle of primer
AB202-PRIMER	NA	NA	3 oz. bottle of primer only

* U.S. Navy approved

UV Cure Adhesives



ANGSTRÖMBond®

One Part UV Cure Adhesives

Systems designed to cure under UV radiation (310 - 400 nm). These are fast curing systems with a wide variety of properties for optical and fiber optic applications. These adhesives are loosely categorized in the following tables but we recommend that you speak with one of our application engineers to ensure you have the right product for your application.

- Fiber Re-Coating
- Optical Adhesives
- Low Refractive Index
- Optical Positioning
- Temporary Fixturing
- Laminating
- Flexible
- High Power Laser
- High Tg
- Plastic Bonding
- Silicone UV Adhesive
- Biocompatible
- UV & Blue Light Cure
- Hybrid UV & Heat Cure Adhesive
- General Purpose

Fiber Re-Coating

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
DSM950-200-10Z or -20Z	Clear	1.55	2,500 cps	5%	1.0 J*CM ² for a 75µm Film
DSMDF0007-10Z or -20Z	Clear	1.38	4,000 cps	--	1.0 J*CM ² for a 75µm Film
DSM953-005-20Z		--	4,850 cps	--	25s @ 150 mW/cm ²

Optical Adhesives

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
OP-29-3ML	Clear	1.50	2,500 cps	2.8 %	2-5s @ 150 mW/cm ²
OP-29-T-3ML	Clear	1.50	5,000 cps	2.8 %	2-5s @ 150 mW/cm ²
OP-29-GEL-3ML	Clear	1.50	20,000 cps	2.8 %	2-5s @ 150 mW/cm ²
OP-30-3ML	Clear	1.51	400 cps	2.3 %	5-30s @ 200 mW/cm ²
OP-32-3ML	Clear	1.51	4,500 cps	2.3 %	10-30s @ 200 mW/cm ²
OP-4-20632-3ML	Clear	1.55	500 cps	< 0.2 %	1-10s @ 150 mW/cm ²
OP-4-20641-3ML	Clear	1.51	21,000 cps	< 0.5 %	1-10s @ 150 mW/cm ²
OP-4-20656-3ML	Clear	1.55	25,000 cps	0.2 %	1-20s @ 150 mW/cm ²
OP-4-20658-3ML	Clear	1.59	1,200 cps	< 0.4 %	1-3s @ 150 mW/cm ²
OP-52-3ML	Clear	1.52	5,000 cps	1.9 %	3-5s @ 150 mW/cm ²
OP-54-3ML	Clear	1.51	100 cps	1.8 %	1-4s @ 150 mW/cm ²

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Specifications may change without notice

EPOXY & ADHESIVES / B-5

CONSUMABLES

UV Cure Adhesives (continued)

Low Refractive Index

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
EX1128-1.36-3CC	Clear	1.36	1,000 cps	--	15s - 5m @ 100-300 mW/cm ²
EX1128-1.38-3CC	Clear	1.38	1,000 cps	--	15s - 5m @ 100-300 mW/cm ²
EX1128-1.40-3CC	Clear	1.40	1,000 cps	--	15s - 5m @ 100-300 mW/cm ²
R221-3CC	Clear	1.41	125 cps	3.9 %	1s @ 1 J/cm ²
AB9053-3CC	Clear	1.41	6,000 cps	3.9 %	1s @ 150-300 mW/cm ²
OG134-3CC	Clear	1.42	< 100 cps	--	1-2m @ 100 mW/cm ²

Optical Positioning

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
OP-4-20632-GEL-3ML	Clear	1.55	50,000 cps	< 0.2 %	1-10s @ 150 mW/cm ²
OP-4-20714-3ML	White Opaque	--	60,000 cps	0.4 %	2-5s @ 150 mW/cm ²
OP-54-3ML	Clear	1.51	100 cps	1.8 %	1-4s @ 150 mW/cm ²
OP-67-LS-3ML	Opaque	--	135,000 cps	< 0.1 %	

Temporary Fixturing

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
OP-18-3ML	Clear	1.50	48,000 cps	2.0 %	5s @ 100 mW/cm ²
OP-19-3ML	Clear	--	6,000 cps	--	5-20s @ 1000 mW/cm ²
OP-19G-3ML	Clear	--	20,000 cps	--	5-20s @ 1000 mW/cm ²

Laminating

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
OP-40-3ML	Clear	1.49	135 cps	3.4 %	1s @ 150 mW/cm ²
OP-42-3ML	Clear	1.50	300 cps	1.0 %	1s @ 150 mW/cm ²
OP-44-3ML	Clear	1.48	190 cps	2.9 %	1s @ 150 mW/cm ²
OP-45-3ML	Clear	1.48	1,200 cps	3.2 %	4s @ 150 mW/cm ²

Flexible

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
OG116-41-3CC	Tan	--	13,619 cps	--	1-2m @ 100 mW/cm ²
OP-4-20639-3ML	Clear	1.47	35 cps	2.4 %	1-10s @ 150 mW/cm ²
OP-4-20647-3ML	Clear	1.47	120 cps	1.6 %	1-15s @ 150 mW/cm ²
OP-4-20647-GEL-3ML	Clear	1.47	30,000 cps	1.6 %	1-15s @ 150 mW/cm ²
OP-4-20655-3ML	Clear	1.48	800 cps	1.9 %	1-3s @ 150 mW/cm ²

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UV Cure Adhesives (continued)

High Power Laser

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
AB9061-3CC	Clear	1.55	9,000 cps	< 0.3 %	5-20s @ 100 mW/cm ²

High Tg

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
AB9028-3CC	Clear	1.57	1,000 cps	< 0.5 %	30-50s @ 150 mW/cm ²
AB9028MV-3CC	Clear	1.58	4,000 cps	< 0.2 %	30-50s @ 150 mW/cm ²
DSM956-105-3CC	Clear	1.53	1,100 cps	4.0 %	1-2m @ 100 mW/cm ²
ET90-87-6-3CC	Clear	1.50	350 cps	< 1.0%	1-2m @ 100 mW/cm ²
OG147-3CC	Black	--	200,000 cps	--	1-2m @ 100 mW/cm ²
OG157-10CC	Slight Yellow	1.57	98,500 cps	--	1-2m @ 100 mW/cm ²
OP-4-20632-3ML	Clear	1.55	500 cps	< 0.2 %	1-10s @ 150 mW/cm ²
OP-4-20632-GEL-3ML	Clear	1.55	50,000 cps	< 0.2 %	1-10s @ 150 mW/cm ²
OP-4-20663-3ML	Clear	1.54	1,900 cps	0.8 %	1-5s @ 150 mW/cm ²

Plastic Bonding

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
AB9042-3CC	Clear	--	50,000 cps	2.0 %	5-30s @ 150-300 mW/cm ²
AB9088LV-3CC	Clear	--	450 cps	--	5-20s @ 150-300 mW/cm ²
OP-21-3ML	Clear	1.50	600 cps	2.7 %	1-15s @ 150 mW/cm ²
OP-21G-3ML	Clear	1.50	25,000 cps	2.7 %	1-15s @ 150 mW/cm ²

Silicone UV Adhesives

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
AB5091-3CC	Translucent	--	5,500 cps	--	20s @ 30 mW/cm ²

Biocompatible

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
OG169-3CC	Clear	1.51	82 cps	--	1-2m @ 100 mW/cm ²
OG603-3CC	Clear	1.48	300 cps	--	10s @ 100 mW/cm ²

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Specifications may change without notice

EPOXY & ADHESIVES / B-7

UV Cure Adhesive (continued)

UV & Blue Light Cure

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
OG178-3CC	Clear	1.56	500 cps	--	60s @ 100 mW/cm ² (Visible Light)
OP-29V-3ML	Clear	1.50	2,500 cps	2.8 %	2-10s @ 150 mW/cm ²
OP-29V-GEL-3ML	Clear	1.50	110,000 cps	2.8 %	2-10s @ 150 mW/cm ²
OP-30-3ML	Clear	1.51	400 cps	2.3 %	5-30s @ 200 mW/cm ²
OP-32-3ML	Clear	1.51	4,500 cps	2.3 %	10-30s @ 200 mW/cm ²

Hybrid UV & Heat Cure Adhesive

Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
ET-90-127-3	--	--	300 cps	--	2m @ 100 mW/cm ²
ET-90-130	--	--	26,500 cps	--	2m @ 100 mW/cm ²
OP-4-20632-H-3ML	Clear	1.52	500 cps	0.2 %	1-3s @ 150 mW/cm ²
OP-24-REV-B-3ML	Clear	1.50	800 cps	3.7 %	10-20s @ 150 mW/cm ²

General Purpose

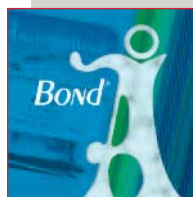
Part Number	Cured Color	I.R.	Viscosity	Shrinkage	Cure Schedules*
AB1297-3CC	Clear	1.49	30,000 cps	--	15s @ 150 mW/cm ²
AB9047-3CC	Pale Yellow/Green	1.52	2,500 cps	< 1.0 %	1-10s @ 150-300 mW/cm ²
DSM4D6-225-3CC	Clear	1.49	325 cps	< 3.0 %	60-90s @ 150-200 mW/cm ²
DSM956-104-3CC	Clear	1.53	2,400 cps	3.0 %	60s @ 25 W/cm ²
NOA61-3CC	Clear	1.56	300 cps	1.5 %	5-10s @ 150-300 mW/cm ²
NOA81-6CC	Clear	1.56	300 cps	--	5-20s @ 150-300 mW/cm ²
OP-20-3ML	Clear	1.46	1,000 cps	2.7 %	1-3s @ 150 mW/cm ²
OP-20G-3ML	Clear	1.50	130,000 cps	2.7 %	1-3s @ 150 mW/cm ²

* The required intensity and cure time should be determined during the initial process validation stage. Factors that should be considered during process validation which can effect the adhesive cure rate and depth of cure include: part geometry, bond-gap size, percent of light transmittance through the substrate at 365nm and/or 436nm, distance from the light source to the adhesive bond area, UV and visible light intensity and spectral output of the light source, the desired margin of safety to be built into the process, etc. For specific technical recommendations relating to the application, please call FOC.

Specifications may change without notice

EPOXY & ADHESIVES / B-8

Specialty Epoxy & Adhesives



ANGSTRÖMBond®

Specialty Epoxy & Adhesives

These adhesives are loosely categorized in the following tables, but we recommend that you speak with one of our application engineers to ensure you have the right product for your application.

- Electrically Conductive
- Thermally Conductive
- Boot Bonding
- Flexible
- Spectrally Transparent
- Cyanoacrylate (Quick Cure)
- General Bonding

Electrically Conductive

Part Number	Cured Color	Viscosity	Working Time	Cure Schedules		
AB2902-2.5G	Silver	Creamy Paste	2 - 3 Hours	24h @ 25°C	1-2h @ 65°C	30m @ 100°C
ETH20E-2.5G	Silver	2200 - 3200 cps	2 - 3 Days	90m @ 80°C	15m @ 120°C	5m @ 150°C

Thermally Conductive

Part Number	Cured Color	Viscosity	Working Time	Cure Schedules		
AB9578-2.5G	Grey	8,200 cps	30 minutes	8-12h @ 25°C	2h @ 60°C	1h @ 80°C
ETH70E-2.5G	Silver	4000 - 7000 cps	4 Days	90m @ 80°C	15m @ 120°C	5m @ 150°C

Boot Bonding

Part Number	Cured Color	Viscosity	Working Time	Cure Schedules	
				25°C	65°C
AB9245-2.5G	Clear Amber	4,000 cps	2 hours	18 h	1-2 h
AB9247-2.5G	Clear Amber	5,500 cps	2 hours	18 h	1-2 h

Flexible

Part Number	Cured Color	Viscosity	Working Time	Cure Schedules		
				25°C	65°C	90°C
AB9195-2.5G	Clear Yellow	200 cps	3-4 hours	24 h	3-4 h	30m
AB1620-3CC	Translucent	32,000 cps	16 minutes	24 h	--	--
AB1624-3CC	Translucent	55,000 cps	13 minutes	24 h	--	--

Spectrally Transparent

Part Number	Cured Color	Viscosity	Working Time	Cure Schedules	
				25°C	65°C
ET305-2.5G	Clear	100 - 300 cps	20 minutes	8-12 h	1 h
AB9110LV-2.5G	Clear	500 cps	60 Minutes	18 h	1 h

Section continued on next page

Specifications may change without notice

EPOXY & ADHESIVES / B-9

CONSUMABLES

Specialty Epoxy & Adhesives (continued)

Cyanoacrylate (Quick Cure)

Part Number	Cured Color	Viscosity	Working Time	Cure Schedules
ND365000-20ML	Clear	5,000 cps	Not Applicable as these cure in seconds when the resin comes in contact with the primer	
ND330100-1G	Clear	90 - 120 cps		

General Optical Bonding

Part Number	Cured Color	Viscosity	Working Time	Cure Schedules		
				25°C	65°C	90°C
AB9110LVBLUE-2.5G	Black	500 cps	60 Minutes	18 h	1 h	
AB9190-2.5G	Clear	150 cps	2-3 hours	18 h	1-2 h	20 m
AB9226-2.5G	Clear	13,000 cps	5 minutes	18 h	1 h	
AB9263-2.5G	Amber	30,000 cps	90 minutes	16 h	1-2 h	
AB9282-2.5G	Gray	8,000 cps	2-4 hours	24 h	1 h	30 m
ET301-2.5G	Clear	100 - 200 cps	30 - 50 minutes	12 h	2 h	
ET301-2-2.5G	Clear	125 cps	8 hours	48 h		1 h
ET301-2FL-2.5G	Clear	300 - 600 cps	12 hours	72 h		1 h
ET302-3M-2.5G	Clear	800 - 1,600 cps	90 - 120 Minutes	12 h	1.5 h	

Most materials can be supplied in easy to use 2-part packages, premixed and frozen syringes or cartridges, jars, vials, quarts, gallons or other specialty packaging as required. Please contact FOC for information.

Specifications may change without notice

EPOXY & ADHESIVES / B-10

Cleaning Supplies



Fiber Optic Cleaning Supplies

Clean fiber optic components are essential to their performance. Whether in manufacturing, installation, or operation, a clean end face is critical for maximum performance and reliability. Since the majority of fiber optic applications operate down at the micron level, any sort of contamination can be a major problem. For example, the core of a single mode fiber is approximately 9 microns and to put this in perspective, a typical human hair is 50 to 75 microns. If just a one micron dust particle comes in contact with the core of a single mode fiber (a particle of cigarette smoke is 3 microns), it can have a dramatic affect both optically and physically. Optically, you can expect higher losses and physically, you run the risk of permanent damage, not easily remedied.

Fiber Optic Center offers cleaning supplies in the following areas;

- Patchcord Cleaning
- Backplane Ferrule / Bulkhead Cleaning
- Fiber Optic Cleaning Fluids
- Lint Free Wipes
- Pre-Saturated Wipes
- General Purpose Cleaning Swabs
- Canned Air
- Cleaning Kits

Patchcord Cleaning



CleTop® & CleTop®-S

Patchcord Cleaning Cassettes

The CLETOP®-S and CLETOP® does away with cleaning fluids such as isopropyl alcohol which are not only toxic and flammable, but also leave a residue on the fiber ends after cleaning. The CLETOP®-S and CLETOP® cloth is extremely effective in the removal of oil, grease, dust, and other contaminants from ferrule surfaces. CLETOP®-S and CLETOP® cleaners provide thorough cleaning of ferrule endfaces by using a dry alcohol-free cloth, and have a lifetime of over 400 wipes per reel.



Options

- **Type A** units have two slots specifically designed to accept 2.5mm ferruled connectors
- **Type B** units feature open rectangular access to the tape that accepts any connector style
- **Blue Tape** is designed for cleaning 2.5mm ferruled connectors or larger
- **White Tape** is a finer weave that does not snag the smaller 1.25mm ferruled connectors

New Features of the CleTop®-S

The newer CLETOP®-S fiber optic cleaning cassette builds on the success of its predecessor, CLETOP®, to give world class cleaning performance at exceptionally competitive cost efficiency. It features improved ESD protection in a more ergonomic package.

- Slide open lock offers easier access to replace drop-in replacement cassette
- CleTop®-S: Tool-free case design. Drop-in replacement tape cartridge
- Central push button operation offers ease of use for left handed and right handed operators



Optipop®

Patchcord Cleaning Cassettes

The Optipop® dry cloth cleaning systems are the most advanced fiber tip cleaning products available today. The unique, densely woven micro-fiber cloth provides superior cleaning performance while minimizing static charge, ensuring that debris is not instantly attracted back onto the fiber tips like other cleaners.

Features & Benefits

- Optipop® Reel Cleaner is a convenient hand held cassette
- Optipop® card cleaner is a smaller packaged cleaner that can easily slide onto any kit
- The cloth is robust, it does not fray or leave any fibrous materials behind
- Ultra clean micro-fiber cloth captures debris and other contamination

Ordering Information

TYPE	CLETOP®-S	CLETOP®	Optipop®
Universal w/o Pins	8500-10-0016MZ	8500-10-0014MZ	6338
2x Slot for 1.25 & 2.5mm Connectors	--	8500-10-0011MZ	6437
2x Slot for 2.5mm Connectors	8500-10-0020MZ	8500-10-0027MZ	--
MTRJ w/ Pins	--	8500-10-0032MZ	6340
MPO/MTP w/ Pins	--	8500-10-0033MZ	6339
SMA and Biconics	8500-10-0029MZ	8500-10-0028MZ	--
OptiTap®	--	--	8057
Replacement Tape			
White Replacement Tape	8500-10-0017MZ	8500-10-0015MZ	6232/1
Blue Replacement Tape	8500-10-0021MZ	8500-10-0012MZ	--

Patchcord Cleaning



Seikoh Giken Handimate

Patchcord Cleaning Cassettes

The compact, palm-sized HandiMate is the simplest, most economical cleaning tool currently on the market for both field installation and in bench top laboratories requiring optimum performance for critical applications. The patented Slide-Guide feature accommodates both 2.5mm and 1.25mm ceramic ferrules - and allows the user to properly align both PC polished and APC angle polished optical connectors for maximum cleaning of the critical fiber core. Utilizing a proprietary, non-woven microfiber, the HandiMate can be operated as both a dry cleaner for light dust & lint and/or as a wet cleaner for dried on salts & alcohol residue.

Features & Benefits

- Portable lightweight package
- Effective wet or dry cleaning
- Wide range of connectors and endface styles
- More than 500x cleanings per unit
- ESD Compliant

Ordering Information

Part Number	Description
SHM-500	Seikoh Giken Handimate Patchcord Cleaning Cassette



NEOCLEAN R

Disposable Patchcord Cleaning Cassettes

The NEOCLEAN R cassette is a disposable cassette cleaner that is palm sized, light weight and easy to use for cleaning fiber optic connector end faces. This cassette cleaning package offers an economical, all-dry cleaning solution. The sealed container prevents cloth contamination from external debris.

Features & Benefits

- More than 200 ferrule cleanings per unit
- Cleaning cloth is washed in deionized water in a Class 10000 clean room
- Final cassette assembly completed in an environmentally controlled clean room
- Cassette case housing is made with antistatic resins

Ordering Information

Part Number	Description
8505	NEOCLEAN R Cassette Cleaner – LC, SC, FC, ST, MU, female MT & MTRJ connectors
8504	NEOCLEAN R Cassette Cleaner – OptiTap®-compatible connection systems



ITW Chemtronics QbE

Disposable Patchcord Cleaning System

The only cleaning system that gives both options: For "Wet" cleaning use Electro-Wash® PX Fiber Optics Cleaner or blot connector on Electro-Wash® MX Presaturated wipe first.

Features & Benefits

- Heavy Duty Lint-Free Wiping Material – Tough enough to remove buffer-gel; soft enough for end-face cleaning
- Convenient Size – Portable cleaning system easily fits in tool cases or stores on work benches

Ordering Information

Part Number	Qty	Description
QbE	200/Box	ITW QbE™. Fiber Optic Cleaner Box, 3" x 3" wipes. For cleaning fiber optic end faces.
QbE-R	200/Box	ITW QbE™. Fiber Optic Cleaner Box, 3" x 3" wipes. For cleaning recessed end faces.

Backplane Ferrule / Bulkhead Cleaning

Backplane ferrule bulkhead cleaning refers to cleaning the alignment sleeve in the adapter and/or the ferrule endface of a connector in the inaccessible end of a device or enclosure. The Ferrule Mate, AFL One Click and the HUX cleaner all contain an ribbon of cloth specially designed for cleaning fiber optic end faces. These units advance the cloth during each application to ensure hundreds of reliable cleanings with zero cross-contamination. We also offer single use swabs by CleTop, AFL, Micro Care and ITW. Please see the Westover CleanBlast section for information on their cleaning/inspection system ideal for high volume applications.



Seikoh Giken FERRULE MATE™

Backplane Cleaner

The all new FERRULE MATE™ by Seikoh Giken can be used in the field or in the factory. Now there is ONE solution to effectively clean both ferrules within adapters and cable assemblies. Restore your fiber optic connectors' performance inside the enclosure and outside using the Ferrule Mate cleaning tool; cleans ferrule endfaces and alignment sleeves.

Features & Benefits

- Polyester static free cloth for optimal cleaning
- Ideal for cleaning transceiver ports
- 350 swipes per cleaner
- Cleaning tip adjustable to 45° for angled adapters



AFL One Click

Backplane Cleaner

AFL Telecommunications' backplane cleaners make it easy to clean connector end faces within the adapter without the use of alcohol. Simply insert the One-Click Cleaner into an adapter and push until an audible "click" is heard. The One-Click Cleaner uses a mechanical push action to advance an optical grade cleaning tape while the cleaning tip is rotated to ensure the fiber end-face is effectively, but gently, cleaned.

Features & Benefits

- Ergonomic, comfortable designs
- Over 500 cleanings in one unit
- Delivers consistent cleaning results
- Effective on a variety of contaminants



The Fibers HUXCleaner™

Backplane Cleaner

HUXCleaner™ is a PEN Type In-Adaptor Ferrule Cleaner which delivers about 500 cleanings per unit.

Ordering Information

Manufacturer	2.5mm	1.25mm	MPO/MTP
Seikoh Giken	SFM-250	SFM-125	--
AFL	8500-05-0001MZ	8500-05-0002MZ	CS000710
The Fibers	HUX CLEANER	HUX CLEANER 125	--

Backplane Ferrule / Bulkhead Cleaning



CLETOP®

Adapter Cleaning Swabs

CLETOP® sticks are the industry standard for in adapter cleaning swabs. Made with the same cloth as their highly effective CLETOP patchcord cleaning cassettes, these swabs are specifically designed to clean connectors located in a system, not easily accessible backplane.



AFL

Adapter Cleaning Swabs

The AFL CCT Connector cleaning tips are designed to work dry, or with the MCC-FCC03M Fiber Connector Cleaner solution.



Micro Care

Adapter Cleaning Swabs

The Micro Care FiberCare® connector cleaning sticks are designed for cleaning fiber optic connector end-faces within alignment sleeves. These sticks use high-purity fibrous tips to wick liquids and particulate from end-faces, which boosts cleaning quality. Recommended for use with their FCC2 Fiber connection cleaner solution, or they can function dry. A variety pack of all their adapter cleaning swabs is also available with part number MCC-VM and of just their 2.5mm and 1.25mm adapter cleaning swabs with part number MCC-VS.



ITW Chemtronics

Adapter Cleaning Swabs

Specifically designed to fit snugly and conform to mating. May be used wet or dry to remove dirt and oil contamination on sleeves, adapters and polishing fixtures. Use with Electro-Wash® PX or CZ solvent cleaner for best results.

Ordering Information

Type	CLETOP		AFL		MicroCare		ITW	
2.5mm	8500-10-0024/5	5/pk	CCTS-25-0900MZ	40/pk	MCC-S25	50/pk	25184	50/pk
	8500-10-0024MZ	200/pk	CCTS-25-0910MZ	300/pk	--	--	25183	100/pk
	--	--	--	--	--	--	48040	400/pk
1.25mm	8500-10-0022MZ	200/pk	CCTS-12-0900MZ	40/pk	MCC-S12	50/pk	25123X	100/pk
	8500-10-0022/5	5/pk	CCTS-12-0910MZ	300/pk	--	--	--	--
1.6 & 2.0mm	--	--	CCTS-16-0900MZ	40/pk	MCC-S16	50/pk	--	--
	--	--	CCTS-16-0910MZ	300/pk	--	--	--	--
2.0mm	8500-10-0023MZ	200/pk	--	--	--	--	--	--
	8500-10-0023/5	5/pk	--	--	--	--	--	--
2.0 & 2.5mm	8500-10-0030MZ	100/pk	--	--	--	--	--	--
MT	--	--	CCTX-MT-0900MZ	20/pk	MCC-XMT	50/pk	38142F	50/pk
	--	--	CCTX-MT-0910MZ	300/pk	--	--	--	--

Fiber Optic Cleaning Fluids

AFL, Micro Care and ITW offer many different cleaning solutions designed to remove contaminations without any damage to the optical device. Like alcohol, these fluids will dry quickly but without the residue that alcohol typically leaves behind.



AFL FCC2

Fiber Connector Cleaning Fluid

FCC2 is a non-flammable, environmentally safe, residue free solvent engineered to clean fiber connector end-faces in the backplane and alignment sleeves, while also offering excellent cleaning of particulate, fingerprint oils, salts, and other residues. Designed to be used with AFL/Noyes CCT connector cleaning tips. Dissolves light oils, salts, grime and uncured epoxies, and is especially effective when used with an appropriate mechanical wipe (Noyes Connector Cleaning Tips).



Micro Care PPF03 & POC03

Fiber Preparation Fluid and Precision Optical Cleaner

PPF03 is a non-flammable, environmentally safe solvent engineered to clean fibers after stripping, before fusion splicing or termination and for cleaning connectors and fuses. It is ESD safe.

POC03 is a non-flammable, environmentally safe solvent designed to clean critical optical devices, including soft plastic fiber and components. This fast-drying solvent cleans all types of optical surfaces as well as, or better than acetone or alcohol, without the hazards or compatibility issues.

The Triton™ 3-way dispensing system enables users to dispense on a swab, a spray or a top side saturator all in one.



ITW Chemtronics Electro-Wash PX & MX

Extra-strength cleaners and degreasers

Both the Electro-Wash PX and MX are extra-strength universal cleaners and degreasers safe for use on plastics. The PX dries fast and is recommended for cleaning fiber optic connectors while the MX has a moderate evaporation time recommended for cleaning cables and fiber. The MX is capable of removing water blocking gel without a second alcohol rinse.

Ordering Information

Part Number	Description	Qty
FCC2-00-0900	FiberCare™ Optical Quality Cleaning Fluid with 3-way pump dispenser.	Ea
FCC2-00-0901		Case of 12
MCC-FCC03M	FiberCare™ Fiber Connector Cleaner with 3-way pump dispenser.	Ea.
MCC-PPF03M	FiberCare™ Fiber Preparation Fluid with 3-way pump dispenser.	Ea.
MCC-POC03M	FiberCare™ Precision Optical Cleaning Fluid with 3-way pump dispenser.	Ea.
ES1210	ITW Chemtronics® Electro-Wash® PX. 12.5 oz. aerosol can.	Ea
ES810	ITW Chemtronics® Electro-Wash® PX. 5 oz. aerosol can.	Ea
ES110	ITW Chemtronics® Electro-Wash® PX. 1 gallon pail.	Ea
ES1621	ITW Chemtronics® Electro-Wash® MX. 10 oz. aerosol can.	Ea
CP421	ITW Chemtronics® Electro-Wash® MX. 8 x 10" Wipe, 25 wipes per box.	25/Box
FW2150	ITW Chemtronics® Electro-Wash® MX. 9 gram pen dispenser.	Ea
T021	ITW Chemtronics® Electro-Wash® MX. 6 x 8.5" Wipe, 100 wipes per tub.	100/Tub

Lint-Free Wipes

Lint free wipes are essential when dealing with any sort of optical application. ITW, CleanTex, Micro Care and Kimberly Clark offer wipes in different sizes, absorbency and packaging to fit your application.



ITW Chemtronics Econowipes

Lint free wipes

Coventry™ Econowipes™ are a non-woven wipe made from a hydro-entangled, 45/55 polyester/cellulose blend, for optimum purity in a non-woven wipe. The 45/55 polyester/cellulose hydro-entangled blend is highly absorbent and maintains strength when wet.



CleanTex HydroSorb I & III

Lint free wipes

CleanTex™ brings you the strength, quality, and composition you need. HydroSorb III is the most lint-free wipe available from CleanTex™ and is the recommended wipe for most fiber optic applications. For applications involving larger amounts of liquid, the cellulose/polyester blended HydroSorb I is more absorbent than the HydroSorb III.



Micro Care FiberWipes

Lint free wipes

Micro Care FiberWipes are pure, clean and uncontaminated when pulled from the dispenser and are the perfect size for both fiber or connector cleaning. The FiberWipe fabric is made only by DuPont and has been optimized for the contamination found in fiber optic installations.



Kimberly-Clarke Kimwipes

Lint free wipes

These economical yet highly useful and delicate task wipes are soft, non-abrasive and are considered safe for use on most delicate surfaces. Of course, one would be wise to carefully analyze the impact of these wipes on any surface to which they might have special concern, and do the appropriate inspection to make sure that this choice of wipe is acceptable. The Kimwipes® EX-L Wipes are made from 100% virgin wood fiber.

Ordering Information

Part Number	Description	Qty
6704	ITW Chemtronics® Econowipes™, 4" x 4" Polyester/cellulose blend, non woven wipe.	1200/Bag
6709	ITW Chemtronics® Econowipes™, 9" x 9" Polyester/cellulose blend, non woven wipe.	300/Bag
6713	ITW Chemtronics® Econowipes™, 12" x 13" Polyester/cellulose blend, non woven wipe.	50/Bag
CT404	CleanTex™ HydroSorb III (4 x 4). Hydro-entangled lint-free polyester wiper.	200/Bag
CT409	CleanTex™ HydroSorb III (9 x 9). Hydro-entangled lint-free polyester wiper.	150/Bag
CT512	CleanTex™ HydroSorb Blue (12 x 12). Hydro-entangled lint-free cellulose/polyester blend wiper.	50/Bag
CT604	CleanTex™ HydroSorb I (4 x 4). Hydro-entangled lint-free cellulose/polyester blend wiper.	1200/Bag
CT606	CleanTex™ HydroSorb I (6 x 6). Hydro-entangled lint-free cellulose/polyester blend wiper.	600/Bag
CT609	CleanTex™ HydroSorb I (9 x 9). Hydro-entangled lint-free cellulose/polyester blend wiper.	300/Bag
CT612	CleanTex™ HydroSorb I (12 x 12). Hydro-entangled lint-free cellulose/polyester blend wiper.	150/Bag
MCC-WFW	Micro Care FiberWipes™ (4" x 2", 90 wipes per container)	90/Bag
MCC-FA1	Micro Care FiberAide™ Individually Wrapped Wipes (4" x 2", wipes per box)	50/Box
34120-B	Kimberly-Clarke Kimwipes® EX-L Delicate Task Wipers. Soft, Non-abrasive, Virgin, One-ply Tissue.	280/Box
34120		30 Boxes

Specifications may change without notice

Pre-Saturated Wipes

In most cases, a wipe used in conjunction with a cleaning fluid will do a better job of removing unwanted contaminants than just the wipe alone. If you do not want to carry a separate bottle of fluid with you, pre-saturated wipes are the answer. ITW Chemtronics and CleanTex have a variety of configurations combining their lint free wipes with their various cleaning fluids.



ITW Chemtronics

Chempad, Optic Prep, Electro-Wash MX & IPA Presaturated Wipes

- Chempad - Ultra pure blend of 91% IPA and 9% deionized water.
- Optic Prep - The highest quality pre-moistened lens-grade tissue for cleaning optical surfaces.
- Electro-Wash MX - Extra-strength, plastic safe universal cleaner with moderate evaporation time.
- IPA - Ultra pure mixture of 70% IPA and 30% deionized water



CleanTex

OpticPad, AlcoPad & TexPad Presaturated Wipes

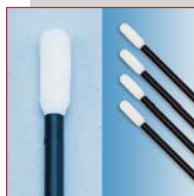
The CleanTex line of presaturated products is conveniently packaged in hermetically-sealed foil pouches.

Ordering Information

Part #	Description	Qty
CP410	ITW Chemtronics® Optic Prep™; Presaturated Lint-Free Optical Surface Wipe. (4" x 8.25")	30/Box
CP400	ITW Chemtronics® Chempad™; General-Purpose, Presaturated 91/9 Lint-Free Wipe. (3" x 4")	50/Box
CP421	ITW Chemtronics® Electro-Wash MX™. 8 x 10" Wipe, 25 wipes per box.	25/Box
SIP100P	ITW Chemtronics® IPA; General-Purpose, Presaturated 70/30 Lint-Free Wipe. (6" x 9")	100/Tub
CT811	CleanTex™ OpticPad® Presaturated Lint-Free Optical Surface Wipe. (5" x 7")	100/Box
CT811Z	CleanTex™ OpticPad® Presaturated Lint-Free Optical Surface Wipe. (5" x 7")	500/Box
CT806	CleanTex™ AlcoPad® Electronic Component Wipe. (3" x 4")	80/Box
CT806Z	CleanTex™ AlcoPad® Electronic Component Wipe. (3" x 4")	250/Box
CT801	CleanTex™ TexPad®. (3" x 4")	80/Box
CT801Z	CleanTex™ TexPad®. (3" x 4")	250/Box

General Purpose Cleaning Swabs

Swabs assist in cleaning small and/or hard to reach items. The following swabs from ITW and Cleantex offer various sizes and materials to fit your application. Swabs with 1.25mm, 2.0mm or 2.5mm heads are typically used to clean sleeves/ferrules in a backplane and can be found in the Backplane Ferrule/Bulkhead Cleaning section of the catalog.



ITW Chemtronics

General Purpose Swabs

Ordering Information

Part #	Description	Qty
CX50	ITW Chemtronics® Flextips™; Foam Swab for Cleaning Optics. (6.3 x 20.5 mm)	50/Bag
CXM50	ITW Chemtronics® Flextips™; Mini Foam Swab for Cleaning Optics. (4.8 x 13.5 mm)	50/Bag
38540	ITW Chemtronics® Sealed Non-Woven Polyester Swabs for Cleaning V-Grooves. (3.0 x 70 mm)	500/Bag
36060	ITW Chemtronics® Sealed Non-Woven Polyester. (5.6 x 152 mm)	500/Bag
51121	ITW Chemtronics® Pillow-Tip™ Swab for Cleaning Fusion Splicing Mirror. (5.8 x 76 mm)	25/Box
41050	ITW Chemtronics® Foam Swabs. (3.6 x 70 mm)	500/Bag
CS25	ITW Chemtronics® Chemswab™ IPA Presaturated Foam Swabs. (12.7 x 25.4mm)	25/Box
CT100	ITW Chemtronics® Cottontips™; General Cleaning, Low-Lint Cotton Swab.	100/Box
CT5000	ITW Chemtronics® Cottontips™; General Cleaning, Low-Lint Cotton Swab.	1000/Box
CT200	ITW Chemtronics® Cottontips™; General Cleaning, Double-Sided Cotton Swab.	100/Box
CT2000	ITW Chemtronics® Cottontips™; General Cleaning, Double-Sided Cotton Swab.	1000/Box



CleanTex

General Purpose Swabs

Ordering Information

Part #	Description	Qty
CT700A	CleanTex™ Foam Covered Cotton Bud, High Absorbency, Open-Cell Foam Swab.	100/Bag
CT705	CleanTex™ Wrapped Cotton Swab, High Absorbency, 100% Cotton Swab.	100/Bag
CT706A	CleanTex™ Large Rectangular Head Over Thin Paddle, Closed-Cell Foam Swab.	100/Bag
CT707A	CleanTex™ Large Rectangular Head Swab, Closed-Cell Foam Swab.	100/Bag
CT709A	CleanTex™ Medium Rectangular Head Swab, Closed-Cell Foam Swab.	100/Bag
CT710A	CleanTex™ Large Flexible Head Swab, Closed-Cell Foam Swab.	100/Bag
CT813	CleanTex™ Presaturated, Multiuse Swab.	25/Bag
CT815	CleanTex™ Presaturated, Keyboard Swab.	25/Bag

Canned Air



Canned air can be used to remove dust, dirt and contaminant as well as dry surfaces that have been cleaned with alcohol or some other cleaning fluid. Most optical applications require the cleanest of standards and ITW and Clean-Tex developed their products with this in mind. The products listed below are all highly filtered to ensure the least amount of particulates and moisture when using their canned air. There are less expensive options on the market, but these may not be suitable for optics.

ITW Chemtronics UltraJet

Precision Dusters

All ITW Chemtronics dusters are 100% ultra-pure HFC-134a filtered to 0.2 microns to leave no residue and are Ozone safe. The UltraJet series has the biggest blast and the All-Way dusters can be sprayed with the can held in any orientation, even upside down.



Micro Care BigBlast & MicroBlast

Precision Dusters

BigBlast™ and MicroBlast™ is the environmentally progressive answer for dry precision cleaning. This economical "canned air" is ultra pure, double filtered to 0.2 microns for the very best cleaning results. It also uses a special valve which doubles the "pushing power" when compared to old style dusters. Perhaps more importantly, the cleaner is non-flammable which means that unlike competing products, it can be safely used on energized equipment, making it ideal for speedy trouble shooting. The cleaner is also non-conductive, non-toxic, odor-free, non-corrosive and leaves no residue.

Available in two packaging options: one is the high-pressure blaster, and the other is a more economical spray that is StatZap™ compatible for better ESD control.

Ordering Information

Part #	Description
ES1217	ITW Chemtronics® Economical Duster. Regular Strength Canned Air, 8 oz can.
ES1017	ITW Chemtronics® Economical Duster. Regular Strength Canned Air, 10 oz can.
ES1617	ITW Chemtronics® Economical Duster. Regular Strength Canned Air, 12 oz can.
ES1027	ITW Chemtronics® Economical Duster. Regular Strength Canned Air, 10 oz can. FLAMMABLE!
ES1029	ITW Chemtronics® Economical Duster. High Power Canned Air, 10 oz can. FLAMMABLE!
ES1020	ITW Chemtronics® UltraJet®. High Power Canned Air. 10 oz can.
ES1015	ITW Chemtronics® UltraJet 70® Biggest Blast High Power Canned Air. 10 oz can
ES1620	ITW Chemtronics® UltraJet® All-Way. High Power Canned Air. 8 oz can.
ES1020K	ITW Chemtronics® UltraJet® Duster System. Contains one Surgical Grade Chrome Trigger Valve (ES710V) and one 10 oz. Refill (ES1020R).
ES1020R	ITW Chemtronics® UltraJet® Duster System 10 oz. Refill.
ES710V	ITW Chemtronics® UltraJet® Duster System Chrome Trigger Valve.
MCC-AIR	Micro Care BigBlast™ Disposable, ozone safe, non-flammable duster, 14 oz. can.
MCC-AIRZ	Micro Care StatZap™ BigBlast™ Disposable, ozone safe, non-flammable duster, 14 oz. can.
MCC-DST	Micro Care MicroBlast™ Disposable, ozone safe, non-flammable duster, 10 oz. can.
MCC-DSTZ	Micro Care StatZap™ MicroBlast™ Disposable, ozone safe, non-flammable duster, 10 oz. can.

Cleaning Kits

In most instances, fiber optic cleaning applications require multiple products. AFL, ITW and Micro Care have created some kits to fit various applications and have packaged them to allow easy transportation and access. Some of the AFL kits contain an inspection scope which is essential to verify that a connector end face is clean or not. If you are dealing in high volume applications, please see the Westover CleanBlast section which combines cleaning and inspecting into one easy-to-use, automated system.



Micro Care

MCC-FK01 Portable Fiber Optic Cleaning Kit

The Portable Fiber Cleaning Kit includes some or all of the following in a zippered carrying pouch with handle:

- | | |
|------------|---|
| MCC-FCC03M | - 3oz can of Fiber Connector Cleaner (1) |
| MCC-FPF03M | - 3oz can of Fiber Preparation Fluid (1) |
| MCC-WFW | - 4x2" FiberWipes Lint Free Wipes, 90 per container (2) |
| MCC-FA1 | - 4x2" FiberAide Lint Free Wipes (25) |
| MCC-S25 | - 2.5mm Connector Cleaning Swabs, 50 per container (3) |
| MCC-S12 | - 1.25mm Connector Cleaning Swabs, 50 per container (2) |



ITW Chemtronics

CFK1000 & CFK1010 Portable Fiber Optic Cleaning Kits

The Portable Fiber Cleaning Kit includes some or all of the following in a zippered carrying pouch with handle:

- | | |
|--------------|-----------------------------------|
| ES810 | - 5oz can of Electro-Wash® PX (1) |
| QBE or QBE-R | - Lintless Dry Wipe Cube (1) |
| 48042F | - 2.5mm Port Swabs (50) |
| 6704F | - 4x4" Lint Free Wipes (100) |
| CP421 | - Electro-Wash® MX Wipes (5) |

CFK1000 Additional Kit Items

- | | |
|--------|-------------------------------|
| 51125F | - Splice Mirror Swabs (50) |
| 38542F | - V-Groove/Ferrule Swabs (50) |

Ordering Information

Part #	Description	Qty
MCC-FK01	Micro Care Fiber Optic Cleaning Kit containing 1- Fiber Connector Cleaner (MCC-FCC03M), 1- Fiber Preparation Fluid (MCC-FPF03M), 2- FiberWipes Lint Free Wipes (MCC-WFW), 25- FiberAide Lint Free Wipes (MCC-FA1), 3- 2.5mm Connector Cleaning Swabs (MCC-S25), 2- 1.25mm Connector Cleaning Swabs (MCC-S12) in a Soft-Sided Case.	Kit
CFK1000	ITW Chemtronics Fiber To The Home Cleaning Kit containing 1- QbE® Cleaning Platform, 1- Electro-Wash® Precision Fiber Optic Cleaner (ES810), 50- 2.5mm Foam Fiber Optic Swabs (48042F), 50- V-Groove & Ferrule Cleaning Swabs (38542F), 50- Fusion Splice Mirror Cleaning Swabs (51125F), 100- Lint Free Wipes (6704F), 5- Electro-Wash® MX Universal Cleaner wipes (CP421), instructions and 1- Rugged Bag with carabineer attachment	Kit
CFK1010	ITW Chemtronics Installation and Maintenance Cleaning Kit containing 1- QbE® Cleaning Platform, 1- Electro-Wash® Precision Fiber Optic Cleaner (ES810), 50- 2.5mm Foam Fiber Optic Swabs (48042F), 100- Lint Free Wipes (6704F), 5 - Electro-Wash® MX Universal Cleaner wipes (CP421), instructions and 1- Rugged Bag with carabineer attachment.	Kit

Cleaning Kits



AFL Telecommunications

FCP1 Series Fiber Cleaning Kits

AFL Telecommunications offers a complete selection of Noyes brand fiber optic cleaning kits for field cleaning of connector end faces in fiber frames, adapters, and on jumpers. Using their exclusive FCC2 non-hazardous cleaning fluid and CCT molded cleaning tips, the FCP1 Series of kits delivers compact, safe, easy to use, reliable cleaning for all types of fiber optic connector end faces including Military and Multiple Fiber Ferrule designs.

- Each kit consists of a wall or rack mountable carry case, FCC2 cleaning fluid, and color-coded instructions.
- Each VS300 Scope includes 2.5mm Universal Cap
- Each stick is double ended, designed for two (2) cleanings

Ordering Information

Part Number	CCTS-25-0900 40 pieces for FC, SC, ST adapters BLUE	CCTS-12-0900 40 pieces for LC, MU adapters GREEN	CCTS-16-0900 40 pieces for Mil sockets ORANGE	CCTP-25-0900 20 pieces for all connectors YELLOW	CCTX-MT-0900 20 pieces for MTP, MPO, MPX PINK	Cletop Type	VS300 View Safe Scope
Soft Case Cleaning Kits							
FCP1-00-0900	1	1		2		A	
FCP1-00-0901	1			2		SB	
FCP1-00-0902	1			2			
FCP1-00-0903	1	1	1	2	2		
FCP1-00-0904	1	1	2	6			
FCP1-00-0905	1	1	1	2		SB	
FCP1-00-0906	1	1	1	2			
FCP1-00-0907	3	1		1	1		
FCP1-00-0908	3	1		1	1	SB	
FCP1-00-0909	3			1			
FCP1-00-0912	5			1			
FCP1-00-0913	3			1		SB	
FCP1-00-0914	2	1		1		SB	
FCP1-00-0915	3	1	1	4	1		
FCP1-00-0916	1	1		1		SB ¹	
FCP1-00-0924PZ	2	2	2	2			
FCP1-00-0926PZ ⁴	2	2				SB	
FCP1-00-0927PZ ⁵	2	1		1		SB	
FCP1-01-0900	1			2		A	1
FCP1-01-0901	1			2			1
FCP1-01-0902	1	1	1	2		SB	1 ²
FCP1-01-0903	1	1	1	2			1 ²
FCP1-01-0904	2	2		2		A	1 ²
FCP1-01-0905	1	1		2	1	SB	1
Hard Case Cleaning Kits							
FCP1-02-0901PF ⁵	3	3		2		SB	1 ³
FCP1-02-0902PF ^{4,5}	3	3		2		SB	1 ³
C182120	Description: AFL Connector/Adapter Cleaning Kit. Ships in a hard case with: Cletop-SB (Qty=1), Replacement Reel for Cletop-SB (Qty=1), ACT-01 Cleaning Tips for 2.5mm adapters (Qty=20), Box of Kimwipes® lint free wipes (Qty=1), Can of Fiber Prep Cleaning Fluid (Qty=1).						

¹ Includes SB replacement cartridge.

² Includes 2.0mm and 1.25mm Universal Cap.

³ Includes 1.25mm Universal Cap.

⁴ Includes One-Click SC/FC/ST and One-Click LC/MU

⁵ Includes a tub of FiberWipes

Buffer & Coating Stripping

Schleuniger

Schleuniger (pronounced SHLOI-NI-GER) is an international company headquartered in Switzerland. Their equipment ranges from semi-automatic benchtop machines to fully automatic processing lines offering a wide range of innovative solutions for stripping, cutting, sealing, crimping and marking of all types of wire and cable, including single conductor wire, coaxial cable, glass and plastic optical cable, flat cable and multi-conductor cable, to name a few. Their fiber optic line includes lightweight machines to strip buffered and coated fibers and larger machines to perform jacket stripping, Kevlar cutting and/or all of the above in one single unit.

"To Be Precise" is Schleuniger's commitment and goal in any matter. To deliver first-class cable and wire processing solutions that cater to a variety of industries is one of their two primary goals. Together with Fiber Optic Center, we offer first-class service, and fast, competent customer support.



Schleuniger

FO-7030 & FO-7035 FiberStrip Buffer & Coating Stripping Machines

The FiberStrip 7030 strips individual coated and buffered fibers while the FiberStrip 7035 strips flat fiber ribbons. Both machines are very compact and can be used in the field or in a high production environment. They are the perfect complement to cleavers and fusion splicers for normal and high strength splicing.

The FiberStrip series, with its special blade geometry and integrated centering aid, ensures that contact with the glass fiber during the stripping process is not possible. A poorly stripped fiber will have surface damage to the glass which will weaken it and lead to premature mechanical failure. Using a high precision, repeatable stripping process is the only way to guarantee the quality of the end product.

A variety of optional quick-change clamping systems are available, allowing the machine to be adapted to hold the type of fiber being processed. Adapters are available to allow the docking of fiber holders from many different fusion splicer manufacturers.

Ordering Information

Part Number	Description
FS-7030	FiberStrip 7030 Automatic Buffer and Coating Stripper
FS-7035	FiberStrip 7035 Multi-Fiber Automatic Buffer and Coating Stripper

FiberStrip Accessories

Part Number	Cladding / Buffer	Part Number	Buffer
Blade Sets		Centralizers	
FO3-F4-1710.A	125um / 900um	FO3-F4-1709.A	900um
FO3-F4-1710.M	125um / 600um	FO3-F4-1709.M	600um
FO3-F4-1710.B	125um / 500um	FO3-F4-1709.B	500um
FO3-F4-1710.K	125um / 400um	FO3-F4-1709.E	400um
FO3-F4-1710.D	125um / 250um	FO3-F4-1709.D	250um
FO3-F4-1710.C	250um / 500um	FO3-F4-1709.F	160um
FO3-F4-1710.E	205um / 900um		
FO3-F4-1710.F	80um / 160um		

Simplex Fiber Optic Cable Prep



Schleuniger

US-2545 UniStrip Pneumatic Wire & Cable Jacket Stripper

The UniStrip 2545 is a pneumatic wire and cable stripper specifically designed for jacket stripping of Glass Fiber Optic (GOF) cables and discrete wires up to 0.12" (3.2 mm) O.D. At a wire size range of AWG 14 - 32 (0.03 - 2.08 mm²), the compact machine strips lengths from 1" - 1.8" (25 up to 45 mm).

Extremely short cycle times and easily adjustable stripping lengths and diameters boost productivity when building cable assemblies and other quick-change wire jobs. The versatility and precision of this semi-automatic stripper ensures productivity in a wide variety of applications. The UniStrip 2545 is a light, but nevertheless very precise machine and strips most insulation types with just one set of blades for greater efficiency.

Operating the UniStrip 2545 is extremely simple. After insertion, the cable makes contact with the sensor, which then actuates the visual controllable stripping process.



Schleuniger

FO-7010 FiberOptic Kevlar Cutting Machine

The low-cost FiberOptic 7010 cuts and removes the Kevlar material of fiber optic cables with complete accuracy to a remaining length between 0.12 and 2.36" (3 and 60 mm).

An efficient vacuum system, activated by means of a foot pedal, separates the Kevlar material from the optical conductor of the cable. The Kevlar is then positioned between the cutting head and anvil. The number of cutting strokes can be adapted to the thickness of the material by means of operating the foot pedal several times.

This extremely light benchtop machine is easy to operate and guarantees repeatable results and a precise cutting performance.



Schleuniger

FO-7045 FiberOptic Jacket, Kevlar and Coating Cutting and Stripping Machine

The FiberOptic 7045 is actually three machines in one. It combines the functions of the UniStrip 2545, FiberOptic 7010 and the FiberStrip 7030 in one integrated package.

Specifically designed for processing jacketed glass optical fibers (GOF), the FiberOptic 7045 provides for perfect stripping of the outer jacket, Kevlar cutting, as well as stripping of the secondary and primary coatings on all common single and multi-mode cables at a very short cycle time.

Cable programs can be changed in less than three seconds without any tooling or blade changes. Highest process quality with a zero reject rate and high productivity ensure the cost-effectiveness of this machine.

Ordering Information

Part Number	Description
US-2545	UniStrip 2545 Pneumatic Wire & Cable Jacket Stripper
FO-7010	FiberOptic 7010 Kevlar Cutting Machine
FO-7045	FiberOptic 7045 Jacket, Kevlar and Coating Cutting and Stripping Machine

Variable Cable Prep



Schleuniger

PS-9500 PowerStrip Automatic Cut and Strip Machine

The fully programmable PowerStrip 9500 cuts and strips wires up to 0.55" (14 mm) in diameter with pull-off lengths up to 7.87" (200 mm). Its innovative design enables the processing of many types of applications ranging from standard cable to multi-conductor and flat ribbon cable.

The PowerStrip 9500 is a high-performance, efficient and modular wire and cable processing system that can be fully integrated into an automatic production line.

This powerful cutting and stripping machine impresses with precise and repeatable Schleuniger stripping quality, high processing speed and a vast range of processing possibilities.

The multiple blade system on the cutter head allows the use of up to 3 pairs of blades which can easily handle most cutting, stripping and slitting requirements.

There are various accessories available for the PowerStrip 9500. From basic pre / post processing equipment to high-end solutions for fully integrated inline processing, Schleuniger offers the right match for your production needs.



Schleuniger

OC-3950 OmniCut Automatic Cutting Machine

The OC 3950 is a fast and precise solution for measuring and cutting round wire, cable or tubing as well as flat ribbon cable. Programming and operating parameters are set using the user-friendly front panel. The OC 3950 can be used as a stand-alone cutter or as part of a Schleuniger wire processing system. The many features, options, and accessories make this a perfect fit for a diverse number of cut to length applications.

The OC 3950 can be configured with different blade materials (ex. tool steel [std.] for cutting copper wire or carbide for cutting fiber optic cable with Kevlar), optional length encoder, and an optional RS 232 interface for remote operation.

As a system cutter, the OC 3950 can be fully integrated with many other Schleuniger machines to match your systems needs. Typical system includes: Prefeeder, hot stamp or inkjet marking (non-stop), coiling or stacking, in-line integration with JacketStrip 8300 for automatic cutting, stripping and slitting either round or out-of-round cable.

Ordering Information

Part Number	Description
PS-9500	PowerStrip 9500 Automatic Cut and Strip Machine
OC 3950	OmniCut 3950 Automatic Cutting Machine

Pneumatic Crimping Machine



Schleuniger

CT32S Pneumatic Crimping Machine

The CT 32S pneumatic crimper is ideal for loose-piece crimping applications. With the ability to deliver up to 3.2 metric tons of crimping force (at 6 bar), the CT 32S has plenty of crimping power for applications up to 6 AWG. The new spring loaded crimping head ensures proper terminal placement and promotes safe operation.

To improve safety, the new spring-loaded head will not allow the press to actuate if the dies are opened more than 0.250" (6.4 mm). The CT 32S can also be configured to accept all existing Schleuniger die sets and other name-brand die sets. The unit is very simple to operate and comes standard with a piece counter and a crimp speed control.

Features & Benefits

- Crimping force up to 3.2 metric tons to crimp wires up to 6 AWG
- Spring-loaded crimping head with safety feature (CT32S)
- Full-cycle mechanism assures crimp cycle must be completed
- In-line crimping action
- Adjustable crimp height and variable crimping speed
- Standard piece counter
- Easy foot-pedal operation
- Accommodates the following die sets
 - All existing Schleuniger interchangeable die sets for open and closed barrel terminals
 - All existing indent crimp die sets for the CT32 and CT42
 - Die adapters available for the most common crimping dies

Technical Specifications

Wire Size	Up to 6 AWG
Crimping Force	7,055 lbs. (3200 kg)
Working Air Pressure	90 psi / 6 bar
Maximum Stroke	0.78" (20 mm)
Speed (cycles/min.)	Up to 54
Crimp Action	In-line
Safety Shield	Optional
Weight	38 lbs. (17 kg)
Dimensions	11 x 8.5 x 11.8" (280 x 215 x 300 mm)
CE-Conformity	The CT 32S fully complies with all CE and EMC equipment guidelines relative to mechanical and electrical safety and electromagnetic compatibility.

Ordering Information

Part Number	Description
CT32S	Pneumatic Crimping Machine with new spring loaded head
CT32	Pneumatic Crimping Machine

Epoxy Preparation

Epoxy performance is highly dependant on how it is prepared, dispensed and cured. To properly prepare a 2-part epoxy, you must have the proper ratio of resin to hardener and they must be mixed together evenly and completely. ÅngströmBond® 2-part packets provide the propper ratio and can be mixed by hand or with the LineX LX-9001 Automatic Bi-Pack Epoxy Mixer. The LX-9001 is an automated system designed to eliminate the human error that can occur at this step.

An often overlooked second step to epoxy preparation is de-gassing the recently mixed epoxy. The inherent nature of mixing introduces microscopic air bubbles into the epoxy. These air bubbles, visible and invisible to the naked eye, will lead to voids in the cured epoxy that can potentially cause failures. Running the recently mixed epoxy through a centrifuge, in its syringe, will remove these air bubbles and reduce the chance for epoxy failure.

When using an automatic dispensing machine, further costs can be saved and product consistency improved with either the pre-weighed packets or the premixed and frozen (PMF) packages. A system can be devised which can reduce operator variability to ensure the same amount of adhesive is injected each time. The unit will also decrease the repetitive motion that can sometimes lead to Carpal Tunnel Syndrome. Premixed and frozen can be packaged in an automatic cartridge that fits your dispensing machine, thus adding to the savings.



LineX

LX-9001 Automatic Bi-Pack Epoxy Mixer

The LX-9001 epoxy mixer offers rapid efficient mixing of 2 to 4 gram packaged epoxy with no waste. Other features include built in timer for accurate mixing cycles, attached syringe holder and stainless steel construction.

Size: 12.5" x 4" x 4.75"

Weight: 4 lbs

Ordering Information

Part Number	Description
LX-9001	LineX Automatic Bi-Pack Epoxy Mixer. 110 V
LX-9001A	LineX Automatic Bi-Pack Epoxy Mixer. 220 V



Drucker

613B Centrifuge

De-gassing epoxy after mixing will ensure performance and increase yields. The Drucker 613B centrifuge is designed to work with test tubes but will also work with small 3cc syringes to eliminate the small, micro bubbles created during the epoxy mixing process.

Technical Specifications

Nominal Speed	3100 rpm with six 15ml tubes
Nominal RCF	1240 x G, Max. Volume: 90ml (6 x 15ml)
Operating Power	115V, 60Hz, 120W

Ordering Information

Part Number	Description
DRUCKER 613B	Drucker Model 613B Centrifuge. Comes with Tubes and Bumpers.

Epoxy Dispensing



Fishman

LDS900™ LDAH Airfree™ Volumetric Epoxy Dispenser

Linear Dispensing Systems™-- The LDS technology gives you the accurate and repeatable method of positive displacement you want without the headache of pneumatic systems. No need to flush chambers or valves. Formulations stay untouched in safe, silicone-free syringes with this revolutionary new system. Change fluids or volumes with ease.

Unlike pneumatic machines, this intelligent dispensing system knows the syringe size, volume, and the dispense rate. The result is process control that is unachievable with pneumatic systems.

Features & Benefits

- No Air-Electromechanical linear drive system
- Two year fault free warranty
- PosiLok™ connector
- 10 memory locations
- For use with 3, 5, 10 or 30cc syringes
- Inert all-plastic fluid container

Technical Specifications

Input Voltage	100 to 240 VAC
Control Unit Size	5.3" x 8.75" x 7.25" (8.9 x 22.3 x 18.4 cm)
Dispensing Gun Length	8.5" (21.6 cm)

Ordering Information

Part Number	Description
D113511	LDS9000 LDAH Linear Displacement Volumetric Epoxy Dispenser. Includes Z5DA119 (19 gauge needles), Z5DA120 (20 gauge needles), O122051 (3cc barrels with pistons), O050051 (white tip caps).

Disposable Dispensing Components

Part #	Description	Bulk (sold in bags of 1k, 5k or 25k)
O122051	3CC Barrel with Pistons - 50/box	A862451 (includes tip caps)
O012131	3CC Barrel - 50/box	--
O112051	3CC PosiLok Piston - 50/box	--
O123131	5CC Barrel with Pistons - 40/box	A863451 (includes tip caps)
O013131	5CC Barrel - 40/box	--
O113131	5CC PosiLok Piston - 40/box	--
O050051	White Tip Caps - 50/box	A600031
Z5DA119	19 Gauge, HiFlow Metal Dispensing Needle (.75 in.) - 50/box	E01Z101
Z5DA120	20 Gauge, HiFlow Metal Dispensing Needle (.75 in.) - 50/box	E01Z091
Z5D3120	20 Gauge, HiFlow Metal Dispensing Needle (1.0 in.) - 50/box	E01K091

Miscellaneous

Part Number	Description	Part Number	Description
N60441008	Lead Screw Lubricant	A890C21	Venting Ribbons - 20/pack
DXX0000	Gun Maintenance Kit		

Specifications may change without notice

Epoxy Dispensing



I&J Fisnar

FO-12-DSP501LF Pneumatic Dispensing Machine

Features a larger internal air solenoid which is recommended for operations that require an immediate and fast reaction for de-pressurization. The higher volume exhaust prevents post compression of materials contained in tubes, avoiding stringing. Suitable for all types of fluids, includes a suck-back feature to ensure low viscosity liquids do not drip. Timing intervals from 0.01 to 31 seconds.

Features & Benefits

- Dispense timer
- Suitable for tube dispensing
- Barrel suck-back ensures no dripping
- Large solenoid air exhaust

Technical Specifications

Size	8.63" x 8.50" x 2.63" (21.92 x 21.59 x 6.68 cm)
Dispense Time	0.01 - 31 seconds
Cycle	Momentary with time or continuously maintained
Air input	70 to 100 psi (5 to 7 bar)
Air output	1 to 100 psi (0.1 to bar)
Voltage	110 VAC & 220 VAC
Internal voltage	24 VDC
Weight	4.125 lbs (1.87 kg)

Ordering Information

Part Number	Description
FO-12-DSP501LF	Pneumatic Dispensing Machine. Must specify 3cc, 10cc or 30cc adaptor kit at time of order.

Disposable Dispensing Components

Part Number	Description
560036	3CC Barrel - 10/Bag
H560667	3CC Pistons - 50/Bag
560037A	3CC Barrel Adapter Assembly
580142	White Tip Caps - 10/Bag
560963-1	19 Gauge Metal Dispensing Needle (1.0 in.) - 25/Bag
560088A-1	20 Gauge Metal Dispensing Needle (1.0 in.) - 25/Bag

Epoxy Dispensing



Tridak

Micro-Dot Manual Syringe Dispenser

The Tridak Micro-Dot hand-held syringe dispenser delivers accurate and consistent fluid deposits from pre-packed 10 mL disposable syringes. This portable syringe dispenser can be set to dispense a wide range of fluid shot volumes. Once a volume is set, it can be repeated indefinitely with acute consistency. The Micro-Dot dispenser is light weight, thumb actuated, and can be used in any environment. Tridak molded taper tips are recommended for achieving the most accurate shot size.

Features & Benefits

- Portable, hand-held dispenser with positive displacement accuracy
- Accepts pre-packaged 10cc syringes
- Dispenses a wide range of fluids from low to high viscosities
- Adjustable dot size
- Plastic taper tip recommended for most accurate dispensing
- Compact and light weight, thumb pressure actuation

Technical Specifications

Dispenser Type	Manual positive displacement
Weight (without syringe)	2.8 oz. (81.3 g)
Dimensions (L x W x H)	4.5" x .87" x 2.125" (114mm x 22mm x 54mm)
Minimum Shot Size	.0002 g (25-gauge dispense tip)
Maximum Shot Size	.25 g (15-gauge dispense tip)

Ordering Information

Part Number	Description
STA0600-1000	Tridak Micro-Dot Hand-held Epoxy Dispenser

Epoxy Curing Ovens



LineX

LX-9000 Series Precision Fiber Optic Curing Oven

Ultra precise temperature control with uniform heat for precision curing. Built in curing timer with alarm. Up to 48 connector capacity. Horizontal or vertical curing. Stainless steel construction.

Size: 12" x 4" x 5"

Weight: 8 lbs.

Features & Benefits

- Stainless Steel Construction
- Microprocessor Controlled
- Variable Timer
- Maximum Capacity 48 - Connectors
- Fast Soak Time
- Multiple Connector Configurations
- Cycle Complete Indicator

Ordering Information

Part Number	Description	Part Number	Description
LX-9010	120 VAC Curing Oven	LX-9011	220 VAC Curing Oven

Connector Blocks

Part Number	Description	Part Number	Description
LX-9010-1	SC 36 Port Curing Block	LX-9010-4	Mil Spec Pin/Socket, 1.25mm 48 Port Curing Block
LX-9010-2	ST, FC, D4, MT 48 Port Curing Block	LX-9010-5	SMA 48 Port Curing Block
LX-9010-3	LC 48 Port Curing Block		



Fibertron

Multi-Cure Fiber Optic Curing Oven

The Multi-Cure II's adjustable thermostat controls the curing temperature over a range of 65°C to 125°C permitting the epoxy to cure at a lower temperature for longer periods of time (e.g., 100°C for 15 minutes).

Power receptacle, switch, and fuse module is UL, CSA, and TUV approved. The 240V model is CE approved.

Size: 5.25" x 6.5" x 3.5"

Weight: 4 lbs.

Ordering Information

Part Number	Description	Part Number	Description
9551	120 VAC heater with 9050 SC/ST/SMA/FC/D4 connector block	9561-EU	240 VAC heater with 9050 SC/ST/SMA/FC/D4 connector block

Connector Blocks & Accessories

Part Number	Description	Part Number	Description
9050	24 ST/SMA/FC/D4 cavities on top and 24 SC cavities on bottom	9060	20 Biconic cavities on top and 20 ST cavities on bottom
9080	38999 ferrules, mil connectors, pins and sockets - 14 horizontal cavities	FTQ4	Fibertron Thermometer For Oven

Specifications may change without notice

Epoxy Spot Curing



iCure™

AS200 Thermal Spot Curing System

The iCure AS200 is a thermal spot curing system that uses light to generate thermal energy to cure conventional heat cure adhesives. The unit provides a versatile and cost effective solution that delivers high optical energy with a significant amount of Infra Red radiation that is readily absorbed by thermal adhesives resulting in faster and stronger cures. A sophisticated on board micro-processor monitors system performance, allows for a user friendly flexible interface and offers a range of reporting features.

Features & Benefits

- Reduce curing time by over 75%
- 200 W lamp with up to 80 W/cm²
- Significant infrared contribution where heat cure adhesives have the most absorption
- SmartSense™ system monitoring to extend lamp life and performance
- Wide, state of the art touch screen with intuitive graphical user interface
- Can be used as benchtop or rackmount (self-orienting display)
- Hot strike prevention to protect lamp
- Shutter with 100ms response time

Technical Specifications

Lamp	200 Watt UHP Mercury Vapor Arc
Rated Lamp Life	> 1000 hours (continuous operation)
Optical Spectrum	400 - 3600nm
Output Irradiance	Full optical spectrum, 80 W/cm ²
Lightguide	1m length, 3.6mm diameter output (other configurations available)
Lightguide Bend Radius	10 cm
Spot Size	3.6 mm at the output of the lightguide
Warm-up Period	90 seconds (typical)
Power	85-240 VAC 50/60 Hz
Control Panel	Touch Screen
Dimensions (L x W x H)	13.3" x 7.1" x 7.9" (33.8cm x 18cm x 20.1cm)
Weight	9.9 lbs (4.5 kg)

Ordering Information

Part Number	Description
AS200	iCure AS200 Thermal Spot Curing System

UV Spot Curing



Dymax BlueWave 200

The BlueWave® 200 UV curing spot lamp offers the highest intensity and simplest operation in the industry. A new patent pending intensity adjustment feature allows operators to manually adjust intensity during process validation and production. Users can now maintain a constant intensity by manually increasing intensity to compensate for bulb degradation.



BlueWave 50AS

The BlueWave® 50 AS UV curing spot lamp is economical and simple to operate. It emits primarily UVA and blue visible light (300-450 nm) and is designed for UV curable adhesives, UV curable coatings, and UV curable encapsulants.



Agiltron SUVL

This Solid State UV Light uses high power UV LED as light source, providing low cost, long operation life, low power consumption, and compact size advantages over traditional lamp based alternatives. Agiltron's design achieves high light coupling efficiency exceeding 85% and well-distributed light spot intensity. The exposure time and UV light power are adjustable.

The device can be switched on/off by both a finger push button and a foot press switch. Multiple UV curing headers and battery power versions are also available. This light source is designed to conveniently and economically cure UV epoxy of various types.

Technical Specifications

Model	BlueWave 200	BlueWave 50AS	Agiltron SUVL
UV Intensity	17,000 mW/cm ²	3,000 mW/cm ²	1,800 mW/cm ²
Bulb Life	2,000 hrs	2,000 hrs	30,000 hrs
Replaceable Bulb	Yes	Yes	No

Ordering Information

Part Number	Description
38905	Dymax BlueWave 200 UV Curing Spot Lamp with Foot Switch
39370	Dymax BlueWave 50AS UV Curing Spot Lamp with Foot Switch
SUVL-011110000	Agiltron UV Curing LED Spot Lamp (365nm)
SUVL-011110001	Agiltron UV Curing LED Spot Lamp (365nm) with Foot Switch
SUVL-012110000	Agiltron UV Curing LED Spot Lamp (385nm)
SUVL-012110001	Agiltron UV Curing LED Spot Lamp (385nm) with Foot Switch

UV Flood Lamps



Dymax 5000-EC

The DYMAX 5000-EC Series UV curing flood lamps are designed for high-intensity, rapid UV curing of UV adhesives, UV coatings, and UV inks. 5000-EC UV curing lamps are designed for processes requiring higher-intensity UV light concentrated in a narrow 5" x 5" area. The 5000-EC series UV flood lamps deliver concentrated light primarily in the UV-A range (320-390 nm wavelength) to achieve maximum UV cure depths and "tack-free" cures, typically in 10-30 seconds. DYMAX UV flood lamps provide low-cost cures for bonded or coated areas larger than 1/2 inch² or can be used for small batch processing or conveyor-mounted UV curing.



2000-EC

The DYMAX 2000-EC Series UV curing flood lamps are designed for general purpose, low-intensity UV curing of UV adhesives, UV coatings, and UV inks. A DYMAX 2000-EC UV flood lamp is equipped with internal filters which effectively limit output to longwave, worker-friendly ultraviolet energy. The 64-square-inch curing area of the 2000-EC Series UV flood lights make them well suited for laboratory production and large-batch processing.



Agiltron SUVH

Agiltron's hand held LED UV flood light generates a large diameter UV beam with high power intensity for epoxy curing. It offers desirable features of light weight, compact size, low power consumption, long operating life without the need to change light bulb, and low cost. Its selective emission wavelength produces highly efficient fast curing by using matching UV epoxy. The unit is able to operate continuously with adjustable exposure time and UV light power.

Technical Specifications

Model	5000-EC	2000-EC	Agiltron SUVH
UV Intensity	225 mW/cm ²	75 mW/cm ²	1,200 mW/cm ²
Curing Area	5" x 5"	8" x 8"	2" x 4"
Working Distance	2" - 6"	2" - 6"	4" - 8"
Bulb Life	2,000 hrs	2,000 hrs	40,000 hrs
Replaceable Bulb	Yes	Yes	No

Dymax Ordering Information

Type	5000-EC	2000-EC
Modular (no shileding or shutter)	38100	38105
With Mounting Stand & Small Shield	39830	39730
With Light Shield	39820	39720
With Light Shield & Manual Shutter	39823	39723
With Light Sheild & Zip Shutter	39821	39721

Agiltron Ordering Information

Type	380nm	400nm
Without Foot Switch	SUVH-011110000	SUVH-012110000
With Foot Switch	SUVH-011110001	SUVH-012110001

Laser Scribing



Sagitta Comet

Laser Cleaving System for Optical Connector Processing

Introducing the industry's first Laser Cleaving System for Optical Connector Processing. Sagitta's new laser-based cleaving system eliminates tedious manual steps in your connector terminating process. Proprietary laser and optics, integrated with automated servo controls, precisely cleaves the fiber and removes the epoxy material above the ferrule pedestal, ensuring consistent cleaves with unparalleled repeatability. Internal fume vents and scrubbing systems ensures complete evacuation of outgases, debris and fiber.

Quality & Reliability

- Consistent cleave height with no dependence on epoxy bead size or cleave skill
- Eliminate operator and tool dependent cleave quality
- Eliminate multimode fiber "core cracking"
- Closer cleave (compared to manual)
- Easily cleaves large core and unconventional fiber types

Labor & Material Savings

- Eliminate epoxy removal step and possible subsequent steps (Achievable on step process)
- Improved yields
- Higher throughput
- Eliminate scribe blade wear-out
- Reduced employee training

Technical Specifications

Simplex Connectors Supported	2.5mm and 1.25mm ferrules; Flat, Pre-radiused, or Pre-angled; APC ferrules: step, cone or pencil; Bare ferrule or assembled; Fiber Stubs (fiber in ferrule)
Multi-fiber Connectors Supported	MTRJ, MTP (8, 12 or 24 fiber)
Cleave Throughout	720 UPH
Cleave Cycle Time	< 5 sec
Changeover Time (between connector types)	< 1 min
Allowable protrusion from connector ferrule	1mm to 15mm
Cleave Accuracy (Simplex)	± 25 µm (Simplex)
Cleave Accuracy (MT)	± 25 µm (MT)
Laser Safety	Class I product (FDA, EC)
General Safety	UL, CE
Power	100 to 240V AC, 50 to 60 Hz
Operating Temp Range	10°C to 35°C
Material	Aluminum, Hard anodized coated
Dimensions (W x D x H)	27" x 20" x 11" 700mm x 500mm x 280mm

Laser Scribing

Ordering Information

Part Number	Description
LCS-720-01S	Comet Laser Cleaving System for Simplex Connectors including Two Connector Adapters
LCS-920-01M	Comet Laser Cleaving System for MT and Simplex Connectors including Two Connector Adapters

Adapters and Accessories

Part #	Description	Part #	Description
LCS-123-BF250	2.5mm Bare Ferrule Adapter	LCS-123-BF125	1.25mm Bare Ferrule Adapter
LCS-252-FC	FC Connector Adapter	LCS-253-ST	ST Connector Adapter
LCS-251-SC	SC Connector Adapter	LCS-255-SCB	SC Body Connector Adapter
LCS-121-LC	LC Connector Adapter	LCS-122-MU	MU Connector Adapter
LCS-451-MTRJ	MT-RJ Connector Adapter	LCS-612-MTP	MT Connector Adapter
LCS-254-E2K	E2000 Connector Adapter	LCS-810-MON	Monitor with integral Camera/LCD System

Polishing Machines



Fiber Optic Center offers polishing machines from top manufacturers with a variety of designs to handle any application. For the field, for research and development or for high volume production, we can recommend, install and support the right machine for the job. For example, the ability to adjust time, speed and pressure is preferable on a process development machine, while the ability to set and lock these same variables would be preferred on a machine used in production.

Field Machines

Field Machines need to be small, lightweight and run off their own power supply. These machines are set up to polish just a few connectors at a time, as volume is typically not a concern. Some machines are specifically designed to only perform minor repair work on damaged connectors.

Research and Development

Polishing machines for R&D may not need the capacity of a production machine but they do need the integrity to maintain tight, variable control on time, speed and pressure. These settings have precise controls to give the user the flexibility necessary for complete process development.

Production

Designed for continuous use, these machines, along with the right process, can consistently deliver high volume output with near perfect yields. Time, speed and pressure controls are easily set and locked, allowing the user to simply follow a pre-determined process. Some machines can automatically adjust pressure with real time feedback. Others take automation a step further with CPU control and LCD touch screens. These units can securely store multiple processes which display instructions at each step along with automatically configuring the machine's various settings. With each step fully defined and stored in the machine, process deviation is kept at the lowest possible level.

Support and Service

We have a technical staff with actual production experience to assist you in your machine selection and to help you develop a process to go along with it. If you would like a demonstration, we invite you to come and visit the FOC lab equipped with all the latest technology or we may be able to arrange a demo to be shipped to your facility. We also offer training services, again either in our lab or at your facility. If you purchase a machine from us, we will make sure it performs to your expectation upon delivery and will continue to offer our support should any future issues arise.

Seikoh Giken Polishing Machines



SFP-550 Series

Powerful and ruggedly constructed, the patented SFP-550 Series polishing machines are ideal for high volume production applications. Industry known as the workhorse for standard connectors, they deliver precise processing and high throughput reliably, with low maintenance requirements. Using recommended processes, it meets the most demanding specifications of domestic and international standards bodies. All plates, films and pads for the SFP-550 Series are interchangeable between the 550, 550S and 550E.

Features & Benefits

- Designed for high volume applications
- Quick change tooling
- Accommodates most connector styles
- Super centering accuracy
- Back reflection: UPC -60dB / APC -70dB (typ.)
- Insertion Loss: 0.2dB (typ.)
- Low Undercut
- Excellent endface geometry
- SG Patented rotation & revolution method
- Utilizes I.P.C. holder technology



SFP-550

High Volume Polishing Machine

Seikoh Giken's most reasonably priced model with basic features from their top of the line models. Originally designed for the proprietary IPC (Individual Pressure Control) system, this polisher offers even pressure to each ferrule regardless of its protrusion length while achieving stable, high-quality mass-polishing output. Highly recommended for multi-installation, large scale cable production factories.



SFP-550S

High Volume, PC Based Polishing Machine

Building on the SFP-550 platform, the SFP-550S features a full function LCD touch panel for simplified programming of various polishing processes. Additionally, it features a slow start function, programmable turntable speed controller and voltage-free power input for world-wide versatile installation. Best for use in high volume mass production environments where critical geometry performance is required.



SFP-550E

High Volume, 4 Timer Polishing Machine

Offering features found in the SFP-550S, this model features 4 unique timers instead of a touch panel while still providing mass production, adaptability and versatility. This allows for simple programming and operation and reduces operator error. It also features speed control of the turntable and voltage-free power input.

Seikoh Giken Polishing Machines

SFP-550 Polishing Machine Kits

All Seikoh Giken polishing machines are sold in kits so they are ready to polish right out of the box. See below for the machine part number and their respective kits.

Ordering Information

Part Number	Description
SFP-550	SFP-550 Polishing Machine Including Standard Accessories Kit
SFP-550S	SFP-550S Polishing Machine Including Standard Accessories Kit
SFP-550E	SFP-550E Polishing Machine Including Standard Accessories Kit

Standard Accessories Kit

Part #	Description	Qty	Part #	Description	Qty
FP-IM12	Operating Manual	1	FP-PM12	Process Manual	1
FP-MM12	Maintenance Manual	1	FP-F2A	2 Amp Fuse	2
FP-TS	Hexagon Wrench	1	FP-CH	Cable Hanger	1
PS5X-500-00	5.0mm Sponge Pad	3	PR5X-500-80	5.0mm Rubber Pad	3
GA5D	Adhesive Removal	50	DR5D-9u	Rough Polish Film	2
DJ5D-1u	Middle Polish Film	2	XF5D	Final Polish Film	10
FP-CS55	Coil Spring	4			
SFP-550 Only					
PR5X-500-85	5.0mm Rubber Pad	3			
SFP-550S & 550E Only					
PR5X-500-90	5.0mm Rubber Pad	1	PR5X-508-90	5.8mm Rubber Pad	1
PR5X-480-80	4.8mm Rubber Pad	1	PL50	Polishing Liquid	1

5" Rubber Pads (sets of 3)

Durometer	Thickness					
	5.0mm	2.5mm	4.5mm	4.8mm	5.05mm	5.08mm
95	PR5X-500-95	--	--	--	--	--
90	PR5X-500-90	PR5X-250-90	PR5X-450-90	PR5X-480-90	--	--
85	PR5X-500-85	--	--	--	--	--
80	PR5X-500-80	PR5X-250-80	--	PR5X-480-80	PR5X-505-80	--
75	PR5X-500-75	--	--	--	--	--
70	PR5X-500-70	PR5X-250-70	--	PR5X-480-70	PR5X-505-70	--
65	PR5X-500-65	--	--	--	--	--
60	PR5X-500-60	PR5X-250-60	--	--	--	--
50	--	PR5X-250-50	--	--	--	--
40	--	--	--	--	--	PR5X-508-40

5" Glass Plates (sets of 3)

Thickness						
5.0mm	4.9mm	4.8mm	4.5mm	4.0mm	3.5mm	2.4mm
PG5X-500-00	PG5X-490-00	PG5X-480-00	--	--	--	PG5X-240-00
--	PG5X-490-MT	--	PG5X-450-MT	PG5X-400-MT	PG5X-350-MT	--

- 00 suffix denotes the standard, rubber backed glass pad

- MT suffix denotes the non-rubber backed glass pad for MT processes

Seikoh Giken Polishing Machines



SFP-550 Mega-Axis Polishing Fixtures

High Volume - IPC*

Part Number	Description	Part Number	Description
PH55-PL-48	LC - 48 Pos	PH55-EF8A-40N-R	E2000/APC - R&M - 40 Pos
PH55-PL-40	LC - 40 Pos	PH55-PL8A-40N	LC/APC - 40 Pos
PH55-PM-40N	MU - 40 Pos	PH55-CP-32	SC - 32 Pos
PH55-CP8A-32N	SC/APC step - 32 Pos	PH55-CP8C-32N	SC/APC conical - 32 Pos
PH55-FLM-40N	MU or LC Ferrule - 40 Pos	PH55-FF-40N	2.5mm Ferrule - 40 Pos
PH55-FF8A-40N-1.5	2.5mm/APC Step Ferrule 1.5mm Flange - 40 Pos	PH55-FF8A-40N-1.3	2.5mm/APC Step Ferrule 1.3mm Flange - 40 Pos
PH55-FF8C-40N-1.5	2.5mm/APC Conical Ferrule 1.5mm Flange - 40 Pos	PH55-FF8C-40N-1.3	2.5mm/APC Conical Ferrule 1.3mm Flange - 40 Pos
PH55-MT-24	MT Inner Holder - 24 Pos	Requires the PH55-HMT-24 outer holder	



Standard - IPC*

Part Number	Description	Part Number	Description
PH55-PL-24	LC - 24 Pos	PH55-PL8A-20	LC/APC - 20 Pos
PH55-PM-24	MU - 24 Pos	PH55-PM8A-20	MU/APC - 20 Pos
PH55-SP-20	ST - 20 Pos	PH55-CP-20	SC - 20 Pos
PH55-CP8A-18	SC/APC step - 18 Pos	PH55-CP8C-18	SC/APC conical - 18 Pos
PH55-FP-20	FC - 20 Pos	PH55-EF-18-H	E2000 - Hubher & Suhner - 18 Pos
PH55-FP8R-18-I	FC/APC step - narrow key - 18 Pos	PH55-FP8N-18-I	FC/APC step - wide key - 18 Pos
PH55-FP8RC-18-I	FC/APC conical - narrow key - 18 Pos	PH55-FP8NC-18-I	FC/APC conical - wide key - 18 Pos
PH55-FLM-16	1.25mm Ferrule - 16 Pos	PH55-FF-20	2.5mm Ferrule - 20 Pos
PH55-FF8A-18-1.5	2.5mm/APC Step Ferrule 1.5mm Flange - 18 Pos	PH55-FF8A-18-1.3	2.5mm/APC Step Ferrule 1.3mm Flange - 18 Pos
PH55-FF8C-18-1.5	2.5mm/APC Conical Ferrule 1.5mm Flange - 18 Pos	PH55-FF8C-18-1.3	2.5mm/APC Conical Ferrule 1.3mm Flange - 18 Pos
PH55-F0262-910	LX.5/APC - 12 Pos	PH55-F0332-540	ITT 1.25mm MIL Ferrule - 16 Pos
PH55-LX58AC-12	LX.5/APC Conical - 12 Pos	PH55-LX58A-12	LX.5/APC Special Conical - 12 Pos
PH55-M5P-12	905 SMA - 12 Pos	PH55-M5P-18	905 SMA - 18 Pos
PH55-F0332-970	905 SMA/APC - 12 Pos	PH55-F0332-960	905 SMA/APC - 18 Pos
PH55-EF-18-R	E2000 - R&M - 18 Pos	PH55-EF8A-18-R	E2000/APC - R&M - 18 Pos
PH55-FLM-16	MU or LC Ferrule - 16 Pos	PH55-EF8A-24-R	E2000/APC - R&M - 18 Pos
MT & MTRJ Fixtures (each inner holder requires the PH55-HMT-12C outer holder for operation)			
PH55-HMT-12C	MT Universal Outer Holder	PH55-MTRJ-12	MTRJ Inner Holder - 12 Pos
PH55-MT-12	MT Inner Holder - 12 Pos	PH55-MT8A-12	MT/APC Inner Holder - 12 Pos

*Seikoh Giken's Independent Pressure Control (IPC) Connector Plates allow the operator to use any of the plate's ports in any configuration. Most plates require the connectors to be placed in a symmetrical pattern to produce even polishes. With IPC plates, ferrules are given even polishes regardless of how they are placed in the plate.

Specifications may change without notice

POLISHING MACHINES / D-4

Seikoh Giken Polishing Machines



SFP-70D & SFP-70D2 Series

Low Volume, Field Use Polishing Machines

The SFP-70D and 70D2 machines are designed for low-volume production, reworking or research applications. Their compact, lightweight designs and optional battery packs make them ideal for use in the field as well. Both machines are capable of polishing most major connectors with both UPC and APC finishes.

Features & Benefits

- High performance for a variety of apps
- Ergonomic, simple design for ease-of-use
- Small size for high portability in the lab or field
- Perfect for research or low volume reworks
- Short cycle times - typically 2 min. for reworks
- Can polish up to 6 connectors (SFP-70D)
- Can polish up to 2 connectors (SFP-70D2)
- Compatible with all major connector styles
- Utilizes I.P.C. holder technology
- SG Patented rotation & revolution method

Ordering Information

Part Number	Description
SFP-70D	SFP-70D Polishing Machine Including Standard Accessories Kit
SFP-70D2	SFP-70D2 Polishing Machine Including Standard Accessories Kit
FP-CB07	SFP-70D & SFP-70D2 Transit Case (sold separately)
ENABP1600	SFP-70D & SFP-70D2 Battery Power Kit (sold separately)

Standard Accessories Kit

Part #	Description	Qty	Part #	Description	Qty
N/A	Operating Manual	1	FP-HR	Cable Holder	1
FP-TS	Allen Wrench Set	1	FP-F1A	1 Amp Fuse	10
AD20	AC/DC Adapter	1	FP-DST	Double Sided Tape	1
PR07-500	Rubber Pad	4	PG07-490	Glass Pad	2
GA07	Adhesive Removal	20	DR07-9u	Rough Polish film	2
DH07-3u	Middle Polish film	2	XF07	Final Polish film	20
FP-GS	Grease	1			
SFP-70D Only					
FP-WB	Plastic Water Bottle	2	SP07-005	0.05mm Spacer Film	2

70mm Rubber Pads & Glass Plates (sets of 3)

Durometer	Thickness			
	5.05mm	5.0mm	4.9mm	4.8mm
70	--	PR07-500-70	--	--
80	PR07-505	PR07-500-80	--	PR07-480
90	--	PR07-500-90	--	--
Glass	--	--	PR07-490	--

Seikoh Giken Polishing Machines



SFP-70D Polishing Fixtures

6 Position - IPC*

Part Number	Description	Part Number	Description
PH07-PL-6	LC	PH07-PL8A-6	LC/APC
PH07-PM-6	MU	PH07-PM8A-6	MU/APC
PH07-SP-6	ST	PH07-CP-6	SC
PH07-CP8A-6	SC/APC step	PH07-CP8C-6	SC/APC conical
PH07-FP-6	FC		
PH07-FP8R-6	FC/APC step - narrow key	PH07-FP8N-6	FC/APC step - wide key
PH07-FP8RC-6	FC/APC conical - narrow key	PH07-FP8NC-6	FC/APC conical - wide key
PH07-FLM-6	1.25mm Zr Ferrule	PH07-FF-6	2.5mm Zr Ferrule
PH07-FF8A-6-1.5	2.5mm/APC Zr Step Ferrule 1.5mm Flange	PH07-FF8A-6-1.3	2.5mm/APC Zr Step Ferrule 1.3mm Flange
PH07-FF8C-6-1.5	2.5mm/APC Zr Conical Ferrule 1.5mm Flange	PH07-FF8C-6-1.3	2.5mm/APC Zr Conical Ferrule 1.3mm Flange

SFP-70D2 Polishing Fixtures

2 Position - IPC*

Part Number	Description	Part Number	Description
PH072-PL-2	LC	PH072-PL8A-2	LC/APC
PH072-PM-2	MU	PH072-PM8A-2	MU/APC
PH072-SP-2	ST	PH072-CP-2	SC
PH072-CP8A-2	SC/APC step	PH072-CP8C-2	SC/APC conical
PH072-FP-2	FC	PH072-M5P	SMA 905 (Not I.P.C.)
PH072-FP8R-2	FC/APC step - narrow key	PH072-FP8N-2	FC/APC step - wide key
PH072-FP8RC-2	FC/APC conical - narrow key	PH072-FP8NC-2	FC/APC conical - wide key
PH072-FLM-2	1.25mm Zr Ferrule	PH072-FF-2	2.5mm Zr Ferrule
PH072-FF8A-2-1.5	2.5mm/APC Zr Step Ferrule 1.5mm Flange	PH072-FF8A-2-1.3	2.5mm/APC Zr Step Ferrule 1.3mm Flange
PH072-FF8C-2-1.5	2.5mm/APC Zr Conical Ferrule 1.5mm Flange	PH072-FF8C-2-1.3	2.5mm/APC Zr Conical Ferrule 1.3mm Flange
PH072-EF-2-HS	E2000 Ferrule Holder - H&S	PH072-EF-2-RS	E2000 Ferrule Holder - R&D
PH072-MT-1	Single Position MT		

*Seikoh Giken's Independent Pressure Control (IPC) Connector Plates allow the operator to use any of the plate's ports in any configuration. Most plates require the connectors to be placed in a symmetrical pattern to produce even polishes. With IPC plates, ferrules are given even polishes regardless of how they are placed in the plate.

Seikoh Giken Polishing Machines



Repair Mate

Based on Seikoh Giken's proprietary rotation mechanism and with their long experience in polishing technology, the REPAIR MATE™ was specially designed for repolishing connector endfaces that may have been damaged in the field or may need minor re-working during production.

Features & Benefits

- Small size for high portability in the lab or in the field. (AA battery operation)
- User-friendly one touch button operation.
- New rotation mechanism enables the removal of fiber endface scratches while maintaining endface geometry.
- Polishing holder equipped with IPC* mechanism provides stable polishing results regardless of ferrule length.
- Polishing holders for various connector types available. SC, FC, ST LC, MU (PC & APC)

Ordering Information

Polisher P/N	Plate P/N	Connector Style
SFP-LITE-FP	PHRM-FP	FC
SFP-LITE-FPA	PHRM-FP8R	FC/APC Step Ferrule - Narrow Key
SFP-LITE-FPAN	PHRM-FP8N	FC/APC Step Ferrule - Wide Key
SFP-LITE-FPC	PHRM-FP8RC	FC/APC Conical Ferrule - Narrow Key
SFP-LITE-FPCN	PHRM-FP8NC	FC/APC Conical Ferrule - Wide Key
SFP-LITE-CP	PHRM-CP	SC
SFP-LITE-CPA	PHRM-CP8A	SC/APC Step Ferrule
SFP-LITE-CPC	PHRM-CP8C	SC/APC Conical Ferrule
SFP-LITE-SP	PHRM-SP	ST
SFP-LITE-PL	PHRM-PL	LC
SFP-LITE-PLA	PHRM-PL8A	LC/APC
SFP-LITE-MP	PHRM-MP	MU
SFP-LITE-MPA	PHRM-PM8A	MU/APC

Polisher comes with one plate and items listed in the standard accessories kit.

Repair Mate Standard Accessories Kit

Part Number	Description	Qty.	Part Number	Description	Qty.
N/A	AA Batteries	4	RM-TW	Tweezers	1
RM-AD	AC/DC Adapter	1	RM-SD	Screw Driver	1
RM-PB	Plastic Water Bottle	2	RM-CC	Carrying Case	1
RM-CB	Cotton Buds	5	PL-50	Polishing Oil (500 cc)	1
DIRM	Diamond Polish Film	2	CF07	Cleaning Film	1
HFRM	Final Polish Film	20	PR07-500	Rubber Pad for CF07	1
PRRM-250-50 (PC Pkg Only)	50 Durometer Rubber Polishing Pad	2	PRRM-250-75 (APC Pkg Only)	75 Durometer Rubber Polishing Pad	2
PRRM-250-85 (LC/MU Pkg Only)	85 Durometer Rubber Polishing Pad	2			

*Seikoh Giken's Independent Pressure Control (IPC) Connector Plates allow the operator to use any of the plate's ports in any configuration. Most plates require the connectors to be placed in a symmetrical pattern to produce even polishes. With IPC plates, ferrules are given even polishes regardless of how they are placed in the plate.

Seikoh Giken Polishing Machines



SKT Series Inspect, Clean & Restore Systems

Fiber to the Home installations are pushing the limits of connector performance. To work at their peak, the optical interface must be clean and scratch free throughout the entire network.

The SKT series Field Service Kits by Seikoh Giken provides the service technician with all the tools needed to quickly inspect, clean and restore optical connectors anywhere in the field, whether at the pedestal or at the MDU.



Features

- Battery operated 400x Probe Scope & LCD video display. Adapter tips included for bulkhead inspection.
- RepairMate restoration polisher for re-polishing of PC & APC connectors. Includes AC adaptor & battery pack.
- FerruleMate handheld bulkhead connector cleaners for both 1.25mm & 2.5mm ferrules.
- HandiMate handheld universal connector cleaner.
- Adapter Accessory Kit - Full selection of SC, FC, & LC bulkhead adaptors for testing and inspection.
- Alcohol-free cleaning solvent for heavy debris applications.
- Ruggedized hard-plastic carrying case for complete protection and organization of supplies.



Ordering Information

Part Number	Description
SKT-100	Seikoh Giken Probe Inspection Kit with 400x Probe and 3.5" LCD Display. Includes FC, SC and LC tips and a hard case. Kit also includes 1.25mm and 2.5mm Ferrule Mates, a HandiMate Connector Cleaner and the Micro Care FCC2 cleaning solution.
SKT-300	Seikoh Giken Repair Mate - Inspect, Clean & Restore Kit includes one Repair Mate with accessories and choice of fixture. A 400x probe scope with FC, SC and LC adapter tips and LCD Display, 1.25mm & 2.5mm Ferrule Mates, a HandiMate Connector Cleaner and Micro Care FCC2 Cleaning Solution.



Domaille Polishing Machines



Domaille's optical fiber polishing machines are capable of holding the close tolerances and repeatability required to consistently achieve superior production results when measuring apex offset, radius of curvature, fiber protrusion, back reflection and under-cut. Two factors are of utmost importance when selecting a polishing machine: Yield and throughput. Yield is an indicator of quality and repeatability. Throughput is a measure of productivity. The Domaille polishers are leaders in the industry in terms of both yield and throughput.

All of Domaille Engineering's precision connector polishing machines are designed for accuracy, easy setup, and operator efficiency resulting in industry-leading yield rates. By allowing you to adjust platen force, speed, and time to satisfy your exact specifications, our machines can precisely polish the ends of fiber optic connectors in a repeatable, reliable manner.

Although all models of the Domaille Engineering machines hold the same ultra-precise tolerances, the more advanced machines offer higher degrees of automation and process control. Additionally, all HDC models (even discontinued versions) can be upgraded to an HDC-4000 or HDC-5100. For example, the HDC-3000 can be retrofitted to become an HDC-5100. This allows for maximum return on your polishing machine investment.



APM Model HDC-5100

High Volume, PC Based Polishing Machine

HDC-5100 polisher allows you to program your polishing processes through an easy-to-use PC-based Windows-like full-color touch screen panel. Once programmed, the panel displays your settings for speed, time, and pressure, and also prompts the operator for the film, pad, and lubricant needed for each step of the process.

The number of processes that can be defined and stored within the HDC-5100 is only limited by the amount of machine memory. This means hundreds of processes and steps within each process can be stored on a single machine.

If the number of connectors loaded into the polishing fixture is less than the default that has been programmed, the automatic pressure adjustment feature allows the operator to enter the actual number of connectors loaded. The required pressure is then automatically recalculated to ensure that the individual connector force remains constant regardless of the number of connectors assumed in the process definition.

The HDC-5100 also provides the capability to copy and store your processes to a Compact Flash memory card. The Compact Flash card can be used to backup your defined processes and to copy processes from one machine to another. This not only saves process setup time for each machine, but also ensures consistent process settings.



APM Model HDC-4000

High Volume Polishing Machine

The HDC-4000 features gauges that display force, speed, and time settings. It allows the operator to adjust platen pressure to optimize the polishing process, as well as easily polish partially loaded jigs. After the setup is complete, minimum operator knowledge is required to run the machine. The operator simply loads the polishing fixture and presses a button to start one of the four programmed cycles.



FPM Model HDA-500

Field Use Polishing Machine

A compact version of the Advanced Polishing Machines, our Field Polishing Machine (FPM-HDA-500) can be transported for on-site fiber optic cable installation and emergency repair use. It is designed to achieve the same accuracy as Domaille's larger machines, but with fewer features. An international version is also available which is equipped to operate at 220VAC, 50/60 Hz.

Domaille Polishing Machines



APM Model HDC-2400 & 2700

High Volume Multimode Polishing Machines

PC based polishing machine with color touch screen panel specifically designed for polishing multimode connectors. Features include a pneumatic force control and programmable single three or four step polishing process. This unique design provides minimal cable movement and allows for abrasive film change without removing the fixture. The 2400 works with all Domaille round fixtures and the 2700 works with standard square fixtures.

Features & Benefits

- Color Touch Screen
- Pneumatic Force Control
- Stores a Single Three or Four Step Process
- Single Speed Setting
- Programmable Force and Time Settings
- Cable Management System



DE•nubber™

Automated Stub & Epoxy Removal

Specially designed for denubbing optical fiber connectors, the DE•nubber consistently removes excess epoxy from optical fiber connectors. Significantly reduces cracked fibers resulting from manual denubbing processes. Available for round and square fixture configurations.

Features & Benefits

- Repeatable Connector Prepping Process
- Preps to Consistent Fiber Height
- Can Reduce Polishing Time
- Prepping Done In Polishing Fixture
- Can Eliminate Polishing Steps



Optic Cleanse™

Automated Cleaning Machine

Domaille introduces the Optic Cleanse, PC based, automated cleaning machine with color touch screen. By using non-contact, cleaning technology, it removes process variation by automating the cleaning and prepping cycle while the connectors are still in the polishing fixture.

Features & Benefits

- Repeatable Connector Cleaning Process
- Programmable Cleaning Cycles
- Prevents Contact Cleaning Scratches



Ordering Information

Part Number	Description
APM-HDC-5000	HDC-5000 PC Based Programmable Production Polishing Machine, 100-240VAC and 50/60Hz, CE Marked w/ Standard Accessories
APM-HDC-4000	HDC-4000 Production Polishing Machine, 120VAC, 50/60Hz, w/ Standard Accessories
FPM-HDA-500	HDA-500 Field Polishing Machine, 120VAC 50/60Hz, w/ Standard Accessories
FPM-HDA-600	HDA-600 Field Polishing Machine, 220VAC 50/60Hz, CE Marked w/ Standard Accessories
APM-HDC-2400	HDC-2400 Multimode Polishing Machine for Round Fixtures, 120VAC, 50/60Hz, w/ Standard Accessories
APM-HDC-2700	HDC-2700 Multimode Polishing Machine for Square Fixtures, 120VAC, 50/60Hz, w/ Standard Accessories
DN-RRP-1400	Denubbing Machine for Round Fixtures, 120VAC, 50/60Hz, w/ Standard Accessories
DN-RRP-1700	Denubbing Machine for Square Fixtures, 120VAC, 50/60Hz, w/ Standard Accessories
ACM-PWC-3400	Cleaning Station for Round Fixtures, 120VAC, 50/60Hz, w/ Standard Accessories
ACM-PWC-3700	Cleaning Station for Square Fixtures, 120VAC, 50/60Hz, w/ Standard Accessories

Domaille Polishing Machines



ABRASAVE Fixtures

Domaille Engineering is pleased to announce the new ABRASAVE fixture line, the most revolutionary fiber optic polishing equipment solution in decades. This patent pending, mathematically derived design maximizes polishing film usage, allowing for up to a 50% reduction in polishing time while also extending the life of your polishing film media usage by up to 100%.

This fixture line is available in the standard dimensions of previous Domaille fixtures but is also available in a new, square shape that is compatible with both Domaille and Seikoh Giken polishing machines.

Ordering Information

Standard Shape	Square Shape	Description
PFA-FC-18	SFA-FC-18	FC - 18 Pos
PFA-SC-18	SFA-SC-36	SC - 18 Pos Std. / 36 Pos Sqr.
PFA-ST-18	SFA-ST-18	ST - 18 Pos
PFA-LCF-18	SFA-LCF-36	LC - 18 Pos Std. / 36 Pos Sqr.
NA	SFA-LCDX-18	LC Duplex - 18 Pos

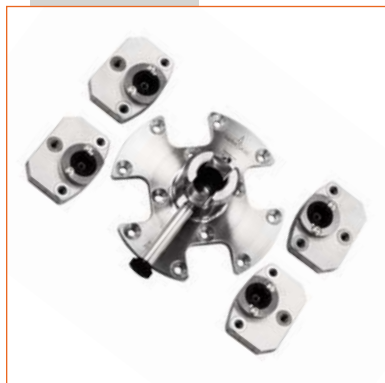


Cam-Lock Fixtures

The Dual Cam-Lock fixture was developed to provide a machine polishing solution for pin and socket style connectors that were otherwise left to hand polishing. This plate is available for standard mil spec 38999 contacts as well as broadcast SMPTE, ARINC and TFOCA contacts. Standard diameters include 2.5, 2.0, 1.8, 1.6, 1.25 and 1.0mm, but custom diameters, shapes and geometries can be manufactured. The single hole version allows for one diameter ferrule and the two hole version gives you the option of having two different diameter ferrules.

Ordering Information

Part Number	Description
PF-xxDCL-12	12 Position Dual Cam-Lock (single hole size)
PF-xx-yyDCL-12	12 Position Dual Cam-Lock (two hole sizes)
PFA-xxDCL-12	ABRASAVE 12 Position Dual Cam-Lock (single hole size)
PFA-xx-yyDCL-12	ABRASAVE 12 Position Dual Cam-Lock (two hole sizes)
SFA-xxDCL-18	ABRASAVE Square 18 Position Dual Cam-Lock (single hole size)
SFA-xx-yyDCL-18	ABRASAVE Square 18 Position Dual Cam-Lock (two hole sizes)
SF-CL-020	Height Setting Fixture with .020" protrusion (single or dual hole)
SF-CL-030	Height Setting Fixture with .030" protrusion (single or dual hole)



Prototype Fixtures

Specially designed for prototyping connectors, this unique fixture has a universal base which can hold up to four different standard or custom inserts for process development of new connectors. It can also be used for reworking low quantities of connectors or to support low volumes of custom connectors.

Ordering Information

Part Number	Description
PF-VC-4	Universal Prototype Fixture Base. Requires four (4) inserts for operation.
VC-XX	Universal Prototype Fixture Insert (standard/straight)
VC-XXA	Universal Prototype Fixture Insert (custom/angle)

Domaille Polishing Machines

Standard Fixtures

All Domaille fixtures have the added benefit of being able to be used across any of their machines. If you need a particular connector style not listed below, it is likely that Domaille can make it for you. Please contact us for details.

Ordering Information

Part Number	Description	Part Number	Description
PF-D4-12	D4 - 12 Pos	PF-SMA-18	SMA - 18 Pos
PF-FC-12	FC - 12 Pos	PF-FC-18	FC - 18 Pos
PF-FC8-12	FC/APC - 12 Pos	PF-FC8.3-12	FC/APC (8.3°) - 12 Pos
PF-FC8-18	FC/APC - 18 Pos		
PF-FC/SCU-12	FC/SC Unassembled - 12 Pos	PF-FC/SCU-18	FC/SC Unassembled - 18 Pos
PF-FO-12	2.5mm Ferrule - 12 Pos	PF-FO8-12	2.5mm/APC Ferrule - 12 Pos
SF-FO-12R2	Setting Fixture for PF-FO-12 and PF-FO8-12		
PF-FO-24	2.5mm Ferrule - 24 Pos	SF-FO-24	Setting Fixture for PF-FO-24
PF-LCF-12SS	LC FLC* - 12 Pos w/ Scallop**	PF-LCF8-12	LC/APC FLC* - 12 Pos
PF-LC8-12SS	LC/APC - 12 Pos w/ Scallop**	PF-LC8.3-12SS	LC/APC (8.3°) - 12 Pos w/ Scallop**
PF-LCDX-6SS	LC Duplex - 6 Pos w/ Scallop**	PF-LCDX-12	LC Duplex - 12 Pos
PF-LX.5-12	LX.5 - 12 Pos	PF-LX.58-12	LX.5/APC - 12 Pos
PF-MT-EZ-12	MT - 12 Pos		
PF-MT-10	MT - 10 Pos	PF-MT8-10	MT/APC - 10 Pos
PF-MTRJ-10	MTRJ - 10 Pos	PF-MTRJ8-10	MTRJ/APC - 10 Pos
PF-MU-12	MU - 12 Pos	PF-MUF-24	MU FLC* - 24
PF-SC-12SS	SC - 12 Pos w/ Scallop**	PF-SC-18SS	SC - 18 Pos w/ Scallop**
PF-SC8-12SS	SC/APC - 12 Pos w/ Scallop**	PF-SC8-18SS	SC/APC - 18 Pos w/ Scallop**
PF-SC8.3-12SS	SC/APC (8.3°) - 18 Pos w/ Scallop**	PF-RME2000DCL8.3-12	E2000/APC R&M - 12 Pos
PF-ST-12S	ST - 12 Pos w/ Scallop**	PF-ST-18S	ST - 18 w/ Scallop**

* Ferrule Length Compensation (FLC) Polishing Fixture

** Polishing fixture has "scallop" around the edges to allow for indexing when used with the ME8800 Micro Enterprises inspection system. See Test & Inspection.



Domaille Polishing Machines

Polishing Machine Accessories

Ordering Information

Part Number	Description	Part Number	Description
PM12525	Timer cover, hard	PM12524	Timer cover, soft
PM12611	Panel Meter Cover (HDC-4000)	PM21012	HDC-5000 dust cover
PM12200TL	Pry Tool	LC REP KIT	Black plastic inserts, screws, pins
LCDX 6 REP KIT	LC 6 duplex port repair kit	LCDX 12 REP KIT	LC 12 duplex port repair kit
SC REP KIT	Black plastic inserts, screws, pins	SC REP KIT SS	Black plastic inserts, screws, pins
SC-18 REP KIT	Black plastic inserts, screws, pins	SCDC REP KIT	Black plastic inserts, screws, pins
PF10070	Fixture clamp screw	FC/SC UNASM NUT	SC/FC unassembled slotted nuts
PM12553	Koby air filter	PM10154	Air Line Assembly
PM12649	Platen grease	TRIFLOW2OZ	2oz. Tri-Flow Oil
MT52000	MT/MTRJ Cable Management Device	MT52010	Torque screwdriver for MT/MTRJ fixtures
PM10121	Load cell gauge block (HDC-4000)	PMTF-220-110	Transformer
FIXT.BRUSH 2.5	Cleaning brush for 2.5mm	FIXT.BRUSH 1.25	Cleaning brush for 1.25mm
Glass Plates & Rubber Pads			
FPM12200	4 1/8" Glass Plate	PM12200	5" Glass Plate
FPM21000-65	4 1/8" 65 durometer rubber pad (5 min)	PM12100-65	5" 65 durometer rubber pad (5 min)
FPM21000-70	4 1/8" 70 durometer rubber pad (5 min)	PM12100-70	5" 70 durometer rubber pad (5 min)
FPM21000-80	4 1/8" 80 durometer rubber pad (5 min)	PM12100-80	5" 80 durometer rubber pad (5 min)
FPM21000-90	4 1/8" 90 durometer rubber pad (5 min)	PM12100-90	5" 90 durometer rubber pad (5 min)

Ultra Tec Polishing Machines



ULTRA TEC polishing machines provide a great solution for the user who doesn't need a full blown, heavy duty, production machine, needs to operate within a budget or needs ultra portability. With all the standard connectors covered, robust systems can be put together to handle multiple connector styles at an economical price.

FTTx - Portable Fiber Polisher

Developed for 'In-the-field' and 'Retro-Polishing' applications, the FTTx portable connector/termini/contact polisher from ULTRA TEC provides the performance required by installation professionals for the FTTx, LAN, CATV, and Aircraft/shipboard applications.

The polisher can be held at any desired angle during operation. This allows for true portable operation in small workspaces, cross-connects, fiber nodes and wire closets. The unit can be operated with either a battery pack or a power supply (both included with standard package).

The standard package for the unit incorporates all the items you need for a fully configured system:

- Portable Polisher
- 5 Resilient Polishing Platens
- 12V Converter
- Battery Pack & Charger
- Carrying Case



CTC - Benchtop Polisher

CTC can be used at the bench-top or in the field. The simple logistics of the unit make it extremely user-friendly. No previous experience is needed to operate the unit.

CTC utilizes the unique 'Fiber Positioning System' that is shared by other models of ULTRA TEC equipment. This 'System' allows for easy height and pressure control that is needed for different brands and types of connectors. A timer control allows for pre-defined polishing instruction.

The standard package for the unit incorporates all the items you need for a fully configured system:

- Polisher
- 12V Converter
- 5 Resilient Polishing Platens



UT-MINIPOL-1 - Single Position Polisher

UT-MINIPOL.1 provides many of the features of larger polishing units in a small benchtop package. Perfect for users with small production batches or operating with a limited budget as it works with most connector types including SC, FC, ST, D4, SMA and Bare fiber.

The system can be powered by 110 or 220 VAC converter or by a standard 12V battery. A wide variety of Workholders are available for extending the use of the system at any time

Ordering Information

Part Number	Description
9005.4	Ultra Tec FTTX Four Position Portable Polisher
8802.4	Ultra Tec CTC Four Position Fiber Polisher
8801.1	Ultra Tec UT-MINIPOL-1 Single Position Polisher
8801.3	Ultra Tec UT-MINIPOL-1 Single Position Polisher (Bare Fiber Package Includes 2890.1)

Ultra Tec Polishing Machines

Polishing Fixtures

Ordering Information

Type	FTTX or CTC		UT-MINIPOL-1
	4-Pos	2-Pos	1-Pos
LC	4315.1	4215.1	2815.1
LC/APC	4315.8	4215.8	2815.8
MU	4313.1	4213.1	2813.1
MU/APC	4313.8	4213.8	2813.8
SC	4305.1	4205.1	2806.1
SC/APC	4305.8	4205.8	2806.8
FC	4314.1	4214.1	2814.1
FC/APC	4314.8	4214.8	2814.8
ST	4304.1	4204.1	2804.1
ST/APC	NA	4204.8	2804.8
2.5mm Ferrule	4311.1	4211.1	2811.1
2.5mm/APC Ferrule	4311.8	4211.8	2811.8
1.25mm Ferrule	4311.2	4211.2	2811.2
1.25mm/APC Ferrule	4311.9	4211.9	2811.9
905 SMA	4303.5	4203.5	2803.5
906 SMA	4303.6	4203.6	2803.6
Contact Holder Assembly (specify contact O.D. & type)	4311.XX	4211.XX	2811.XX
Bare-fiber Workholder (flat polishing only-specify diameter)	NA	NA	2890.1

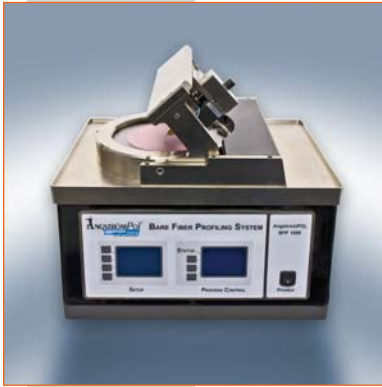
Accessories

Ordering Information

Part Number	Description	For Use With		
		FTTx	CTC	UT-MINIPOL-1
4093.1	2" Resilient Surface Disc (PC)	x	x	
4094.1	2" Hard Surface Disc (Flat)	x	x	
6593.1	4" Resilient Surface Disc (PC)			x
6594.1	4" Hard Surface Disc (Flat)			x
4025.1	110VAC/12VDC Adapter			x
4026.1	220VAC/12VDC Adapter	x	x	x
4027.1	Battery & Battery Pack	x	x	x
4028.1	Battery Charger	x	x	x
4024.1	Auto Plug-in Adapter			x
4030.1	Carrying Case		x	x
4030.2	Carrying Case	x		
4301.1	4-Position Head Assembly	x	x	

Specifications may change without notice

Bare Fiber Polishing Machines



ÅNGSTRÖM^{Pol}

BFP1000 Bare Fiber Polisher

Only available from Fiber Optic Center, the new Ångström^{Pol} series of bare fiber profilers employ Patent Pending technology to achieve new levels of performance. Sub-micron stability and digital control ensures accurate and repeatable profiling in less than a minute. A simple, yet highly flexible user interface makes the Ångström^{Pol} suitable for R&D and Production applications. The operator simply selects the desired profile geometry, enters values for the associated angles, and presses GO. In less than a minute, the newly polished fiber tip is moved to the inspection position. The Ångström^{Pol} can be configured with for a wide variety of options to meet the needs of any application.

Features

- Preprogrammed for conical, angled flats and chisels for "out-of-the-box" operation
- Ultra-stable, automated system produces > 99% yield at rate of up to one part per minute
- Dynamic menu system adapts to current machine state and prompts user accordingly
- Brushless motors means no brushes to replace; bearings are sealed
- Unique fiber guide prevents degeneration of fiber tensile strength associated with micro-cracks induced by ferrule guides in other polishing systems
- Automatically accommodates any fiber with diameter between 80 and 250 microns
- Usage of polishing papers is maximized by dithering fiber position in non-overlapping concentric pathways

Benefits

- No process to develop
- Very low production costs
- Minimal training required
- No user maintenance
- No field failures
- No additional tooling or expense
- Low consumables cost

Ordering Information

Part Number	Description
BFP1000	Ångström ^{Pol} Bare Fiber Polisher for 80-250um fiber
BFP1000-250	Ångström ^{Pol} Bare Fiber Polisher for 250-1000um fiber

Accessories

Nose Piece	Tube Guide	Fiber Size
BFPN-80	BFPTG-80	80-250um fiber
BFPN-250	BFTG-250	250-1000um fiber

Multi-Purpose Ultra Sonic Cleaners



Branson

2510 Series Tabletop Ultra Sonic Cleaners

Ultrasonic cleaning is faster, more consistent, and safer than any other method. Hand scrubbing, soaking, or steam doesn't even come close. The Branson® table top cleaners now include the same high power, rugged transducers found on industrial systems sold to the automotive, electronics, and metalworking industries. These Langevin-type metal/ceramic devices use engineered ceramics to assure both durability and superior power. Coupled with a new sweep frequency capability, you get the best possible cleaning every time, all the time.

Fiber Optic Center recommends this model cleaner with the A22-1 tank cover and the 100-916-334 mesh basket for periodic cleaning of polishing machine connector fixtures. This machine and a simple 60/40 mix of de-ionized water and isopropyl alcohol is all you need to ensure a contaminant free plate.

Features & Benefits

- Consistent enough to meet medical and laboratory standards
- Rugged Enough for Industry
- Safe enough for delicate electronic parts and precious jewelry
- Digital Control Plus Heat & Timer
- Mechanical Timer Plus Heat
- Mechanical Timer
- Cover Included
- Two Year Warranty

Technical Specifications

Overall Size	13.5" x 12" x 11.5"
Tank Size	9.5" x 5.5" x 4"
Weight	9 lbs
Frequency	40 kHz

Ordering Information

Part Number	Description
B2510-MT	Branson Tabletop Ultrasonic Cleaner with Mechanical Timer.
B2510-MTH	Branson Tabletop Ultrasonic Cleaner with Mechanical Timer and Heat Control
B2510-DTH	Branson Tabletop Ultrasonic Cleaner with Digital Timer and Heat Control

Accessories

Part Number	Description		
A22-1	Tank Cover	A250	250 ml Glass
A22-2	Solid Tray	A600-1	600 ml Glass
A22-3	Perforated Tray	A600-2	600 ml Stainless Steel
A22-5	Beaker Cover (2-600 ml)	000-486-065	Drain Tubing (1 Ft)
A22-6	Beaker Cover (2-250 ml)	100-916-334	Mesh Basket
CPN-916-040	Support Rack		

Connector Cleaning Systems



Westover CleanBlast

Bench-Top and Portable Connector Cleaning Systems

Westover Scientific's line of CleanBlast™ systems provide rapid, controlled cleaning and removal of contamination from fiber optic connector end-faces. This patent-pending design utilizes a connector interface that creates a flow of highly-filtered gas across the surface of the fiber. A solvent is then introduced and atomized to create a cleaning mist. All exhaust is reclaimed through a controlled retrieval circuit. The quick-drying solvent used is non-flammable, non-conductive, and residue-free.

- Faster, more effective, and less costly than using swabs or other methods.
- Excellent at removing - instead of spreading - debris and oils around the ferrule surface.

The Bench-Top Systems are most commonly used in production, manufacturing, and QC environments. They are high-throughput, low-maintenance systems and require a clean, compressed air source. The Portable series are complete systems contained inside a rugged Pelican® 1450 transport case. They are ideal for mobile and field applications or for areas where there is no regulated, compressed air supply available - the Portable series contain a built-in compressor.



Patchcord Cleaning System

The Patchcord cleaning module is connected to a CleanBlast™ Bench-Top System base unit via a 5 ft. umbilical hose, and precision interchangeable cleaning Adapters allow for cleaning of connectors on a patch cord. The Patch Cord module can be secured to a workbench using the mounting holes located on the base of the unit.

Ordering Information

Part Number	Output	Description
FCL-B3000	Analog	CleanBlast™ Bench-Top System; Dual Bulkhead and Patch Cord module, Univ. 2.5mm tip & Adapter
FCL-B4000	Analog	CleanBlast™ Bench-Top System; Patch Cord Module; Univ. 2.5mm Adapter
FCL-B4100	Digital	CleanBlast™ Bench-Top System; Patch Cord Module; Univ. 2.5mm Adapter



Bulkhead Backplane Connector Cleaning System

The bulkhead handset was designed to clean connectors that are mounted with bulkheads, devices, or alignment sleeves using the CleanBlast™ tips. This handset can also be used to clean patch cords with the use of compatible CleanBlast™ Mating Adapters.

Ordering Information

Part Number	Output	Description
Bench-Top Systems		
FCL-B1000	Analog	CleanBlast™ Bench-Top System; Bulkhead Handset; Univ. 2.5mm tip
FCL-B1000-22	Analog	CleanBlast™ Bench-Top System; Bulkhead Handset; Univ. 2.5mm tip; 22' Umbilical
FCL-B1100	Digital	CleanBlast™ Bench-Top System; Bulkhead handset; Univ. 2.5mm tip
Portable Systems		
FCL-P1100	Digital	CleanBlast™ Portable System; Bulkhead handset; Univ. 2.5mm tip
FCL-P1100-08	Digital	CleanBlast™ Portable System; Bulkhead handset; Univ. 2.5mm tip; 8' umbilical



Connector Cleaning Systems



90° Bulkhead Backplane Termini Cleaning Systems

This handset is particularly useful when cleaning termini inside Mil type connectors mounted in hard to reach locations.

Ordering Information

Part Number	Output	Description
Bench-Top Systems		
FCL-B2000	Analog	CleanBlast™ Bench-Top System; w/ 90° handset; Univ. 2.5mm tip
FCL-B2000-22	Analog	CleanBlast™ Bench-Top System; w/ 90° handset; Univ. 2.5mm tip; 22' Umbilical
FCL-B2100	Digital	CleanBlast™ Bench-Top System; w/ 90° handset; Univ. 2.5mm tip
Portable Systems		
FCL-P2100	Digital	CleanBlast™ Portable System; w/ 90° handset; Univ. 2.5mm tip



Backplane Long Reach Connector Cleaning Systems

The CleanBlast™ backplane wand was specifically designed for long-reach backplane applications. The removable rigid rod attaches to a specially designed handset and can be configured to work with either Bench-Top or Portable CleanBlast™ Systems. The standard length wand is 12" long.

Ordering Information

Part Number	Output	Description
FCL-B6000	Digital	CleanBlast™ Bench-Top System; Digital; Back-plane Wand for Motherboard Cleaning
FCL-P6100	Digital	CleanBlast™ Portable System; Digital; Back-plane Wand for Motherboard Cleaning



Transceiver Cleaning Systems

This innovative workstation is designed for both cleaning and inspecting optical transceivers. The cleaning/inspection module utilizes a CleanBlast™ Bench-Top System, the Westover Scientific FBP-P5 dual-magnification Video Inspection Probe, and a 6.4" TFT LCD for quick inspection of the fiber stub or ball lens before and after cleaning. Inspection and cleaning tips are available for both SC and LC connector interfaces.

Ordering Information

Part Number	Output	Description
FCL-B5000	Analog	CleanBlast™ Transceiver System w/ Analog dual mag probe 6.4" LCD; No tips
FCL-B5100	Digital	CleanBlast™ Transceiver System w/ Digital dual mag probe 6.4" LCD; No tips

Connector Cleaning Systems



CleanBlast Tips & Adapters

CleanBlast™ tips are used with the Bulkhead set while the adapters are used with the patch cord module.

Ordering Information

Part #	Description	Part #	Description
FCLT-U25	Universal 2.5mm Bulkhead Cleaning Tip; for SC, ST, FC connectors.	FCLT-U25-MA	Universal 2.5mm Cleaning Tip & Mating Adapter for patch cord assemblies.
FCLA-U25	Universal 2.5mm Cleaning Adapter for patch cord assemblies.	FCLA-U12	Universal 1.25mm Cleaning Adapter for patch cord assemblies.
FCLT-U12	Universal 1.25mm Bulkhead Cleaning Tip; 2" in length.	FCLT-U12-MA	Universal 1.25mm Cleaning Tip & Mating Adapter for patch cord assemblies.
FCLT-U12X	Universal 1.25mm Cleaning Tip, 1" in length; made with hardened stainless steel.	FCLA-LC	LC Cleaning Adapter for patch cord assemblies.
FCLT-LC	LC Bulkhead Cleaning Tip.	FCLT-LC-A6	LC Bulkhead Cleaning Tip, Angled at 60°.
FCLT-E2-250	E2000 Bulkhead Cleaning Tip. (2" length)	FCLA-E2	E2000 Cleaning Adapter for patch cord assemblies.
FCLT-SCX	SC Bulkhead Cleaning Tip, 1" in length; made with hardened stainless steel.	FCLT-SC-250	SC Bulkhead Cleaning Tip, 2" in length.
FCLT-SC-A6	SC Bulkhead Cleaning Tip, Angled at 60°.	FCLT-SCFC-A6	SC or FC Bulkhead Cleaning Tip, Angled at 60°.
FCLT-MT	MT Bulkhead Cleaning Tip.	FCLT-MT45	MT Cleaning Tip, Angled at 45°.
FCLT-MT-MA	MT Ferrule Cleaning Tip & Mating adapter for patch cord assemblies.	FCLT-VME-MB-A6	CleanBlast™ MT-VME Motherboard Cleaning Tip, Angled at 60°.
FCLT-MT-MB	MT Motherboard Cleaning Tip.	FCLT-MT-MB-JSF	MT Motherboard Cleaning Tip, for Joint Strike Fighter (JSF) Program.
FCLT-MTP	MTP Bulkhead Cleaning Tip.	FCLT-MTP-A6	MTP Bulkhead Cleaning Tip, Angled at 60°.
FCLT-MTP-MA	MTP Cleaning Tip & Mating Adapter for patch cord assemblies.	FCLT-MPX	MPX Bulkhead Cleaning Tip.
FCLT-HBMT1	HBMT Bulkhead Cleaning Tip.	FCLT-HBMT2	HBMT Dual Bulkhead Cleaning Tip.
FCLT-HBMT2-DC	HBMT Dual Daughtercard Bulkhead Cleaning Tip.	FCLT-MTRJ	MTRJ Bulkhead Cleaning Tip.
FCLT-MIL1	MIL29504/14/15 Cleaning Tip for pin & socket termini.	FCLT-MIL1-R	MIL29504/14/15 Cleaning Tip for pin & socket termini. Rugged w/ safety trigger.
FCLT-MIL2	MIL29504/4/5 Cleaning Tip 38999, for pin & socket termini.	FCLT-MIL2-R	MIL29504/4/5 Cleaning Tip 38999, for pin & socket termini. Rugged w/ safety trigger.
FCLT-MIL2-A6	MIL29504/4/5 Cleaning Tip 38999, for pin & socket termini. Angled at 60°.	FCLT-MIL2-CPA	Glenair probe adapters Cleaning Tip.
FCLT-TFOCA1	TFOCA1 Cleaning Tip for pins & sockets termini.	FCLT-TFOCA2	TFOCA2 Cleaning Tip and Guide for pins & sockets termini.
FCLT-SMA	SMA Bulkhead Cleaning Tip.		

Parts & Accessories

Part #	Description	Part #	Description
FCLP-SOL1	CleanBlast™ solvent; refill 8 oz. bottles.	FCLP-SOL1-6	CleanBlast™ solvent, refill 6, 8 oz. bottles.
FCLP-SOL4	CleanBlast™ Solvent Refill, 8 oz., Mild Ionic.	FCLP-CVA1	Check Valve, Field Replacement Assembly.
FCLP-CH12	Coil Hose Assembly, 12', rated @ 250 psi.	FCLP-CH25	Coil Hose Assembly, 25', rated @ 250 psi.
FCLP-H1	FCL Handle for Bench-Top Systems.	FCLP-FA-F1	Filter, Air, 0.01u, 1/8" NPTF.
FCLP-FE-01	Exhaust Filter Kit for Bench-Top Systems.	FCLP-FE-02	Filter, 5" cartridge, activated carbon.
FCLP-RCA-1	Bottle Cap Refill Assembly.		
VM-LCD-64	LCD, Color, 6.4".	VM-LCD-64B	LCD, Color, 6.4" w/Mounting Bracket for Clean Blast Bench Top Models.

Standard Fiber Strippers



Miller

FO103S Fiber Optic Buffer Stripper "Miller Stripper"

- For stripping 900/250 micron buffer coating from 125 micron optical fiber and other custom sizes
- Precision diameter hole & V-opening in blade ensure accurate buffer coating removal
- Factory set, requires no adjustment
- Prevents scratching or nicking of optical fiber
- All cutting surfaces are precision formed, hardened, tempered and ground assuring precise buffer removal



Miller

FO-103-D-250 "Dual-Hole" Buffer Stripper

- Second hole for stripping 900 micron tight buffer down to 250 micron buffer coating and standard 125 micron fiber stripping (250 micron removal to 125 micron) - allows longer stripping lengths w/o damaging the fiber
- New Dual hole model offer the same quality of our standard FO 103-S fiber tool coupled with a second hole
- Easy-to-read stripping diagrams imprinted on handles



Miller

NN152 & NN203 No-Nik Fiber Optic Buffer Stripper

- Accurate to -0mm, +.0127mm
- Exclusive centering device positions fiber for precise scoring and removal of buffer coating
- Razor-sharp blades score buffer without cutting through it
- Color-coded, cushion-grip handles for quick identification
- Buffer being removed acts as guide and protection for the fiber



Micro Electronics

MS-1 Series Micro-Strip Fiber Optic Buffer Stripper

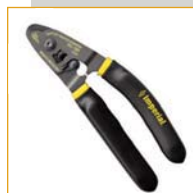
- Interchangeable and replaceable blades
- Patented, self-centering stripping system assures precise, concentric scoring
- No cladding or core damage
- Tool can be customized to suit whatever buffer/fiber configuration up to 2360um



Jonard

JIC-125 Fiber Optic Coating Stripper

- Used for stripping 900/250 micron buffer coating from 125 micron optical fiber
- Preset at the factory so no adjustments are necessary
- Unique design prevents nicks or scratches on the optical fiber
- Blades are ground and hardened for long life
- Yellow plastic dipped handles



Stride Tool

IFO-1500 Imperial Duplex Zipcord Buffer Stripper

- Double strip notches remove both the 250 um and 900 um buffer coatings from two fibers at the same time
- Great for Zipcord and all duplex cables
- Ergonomic, non-slip comfort-grip handles
- The double strip notch design is preferred by fiber technicians and OEMs alike
- Precision-ground blades produce consistent clean strips

Standard Fiber Strippers

Ordering Information

Part #	Manufacturer	Description
250um Coating to 125um		
NN152	Miller	No-Nik Fiber Optic Coating Stripper
NN152 Kit	Miller	No-Nik Stripping and Kevlar Cutting Kit. Contains 2 to 3mm Jacket Stripper, Kevlar Shears, 152um Buffer Stripper and Case.
MS1-06S-40-FS	Micro Electronics	Micro-Strip Fiber Optic Coating Stripper
250um Coating and 900um Buffer to 125um		
FO103S	Miller	Miller Fiber Optic Buffer Stripper ("Miller Stripper")
FO103-D-250	Miller	Miller "Dual-Hole" Fiber Optic Buffer/Coating Stripper
NN203	Miller	No-Nik Fiber Optic Buffer Stripper
NN203 Kit	Miller	No-Nik Stripping and Kevlar Cutting Kit. Contains 2 to 3mm Jacket Stripper, Kevlar Shears, 203um Buffer Stripper and Case.
MS1-08S-40-FS	Micro Electronics	Micro-Strip Fiber Optic Buffer Stripper
MS-FOK-1	Micro Electronics	Micro-Strip Fiber Optic Stripping Kit. Contains Case, Stripping Tools, Blades and Fiber Guides for both outer jacket (up to 3.5mm) and coating/buffer stripping (up to 900um)
MS-FOK-2	Micro Electronics	Micro-Strip Fiber Optic Stripping and Kevlar Cutting Kit. Contains tools for stripping 250um & 900um buffers, 3.0mm Jackets and Kevlar Cutting. Case included.
JIC-125	Jonard	Jonard Fiber Optic Coating Stripper
Duplex 250um Coating and 900um Buffer to 125um		
IFO-1500	Stride Tool	Imperial Duplex Zip-Cord Buffer Stripper

Thermal Buffer Strippers



Jonard

TSFB-125 & TSAB-40 Thermal Strippers

The Jonard Thermal Strippers are compact, easy-to-use fiber stripping units designed to thermo-mechanically remove coatings from optical fibers. The heater is adjustable up to 200°C; far hotter than any competing product. This feature facilitates stripping extremely difficult and baked-on coatings and in some cases can even remove fluoroacrylate undercoatings.

TSFB-125 Fixed Blade Thermal Stripper

supports standard 125μm optical fibers, including 250μm, 400μm, and 900μm coated fibers. Adjustable temperature and time settings allow it to adapt to stripping a variety of different coatings. The precision, self-centering blade design produces high strength stripping performance unmatched by previous flat blade strippers.

TSAB-40 Adjustable Thermal Stripper

supports optical fibers with cladding diameters from 40μm to 1000μm, with buffer diameters up to 1200μm. This includes standard 250μm, 400μm, and 900μm coated fibers. Adjustable temperature and time settings allow it to adapt to stripping a variety of different acrylate coatings and cladding sizes.



AFL Telecommunications

HJS-02 & HJS-03-24 Hot Jacket Strippers

The HJS-02 and HJS-03-24 hot jacket strippers provide superior ribbon and field-ribbonized stripping performance. They conserve power for field stripping when operating under battery power. A temperature selection switch is also provided for easy optimization in the field for different fibers or operating conditions. An optional single-fiber adapter may be used to provide easy, single-fiber capability for high strength splicing applications, or for single-fiber capability for difficult to strip fibers. These strippers also accept the fiber holders of the FSM-40F and FSM-40PM factory/lab splicers. An optional power assist tool for the HJS-03-24 allows smooth and controlled stripping of 24-fiber ribbons.



Micro Electronics

Soft-Strip Thermal Strippers

Soft-Strip stripping tools from Micro Electronics have integral heating elements which enable them to soften and strip such coatings and insulations as Mylen, KAPTON, TEFLON, PVC, and HYTREL. The Soft-Strip system permits precise stripping of these tough coatings with less than three pounds of peak pulling force for multi-fiber- ribbon, and less than one pound for single fiber. The result is no fiber damage and higher quality splices and connections. Units are available for optical fiber (180-1000um) and all standard multifiber ribbons (encapsulated, bonded, and ribbonized types). Custom tools are also available.

Ordering Information

Part Number	Manufacturer	Description
TSFB-125	Jonard	Fixed Blade Thermal Stripper
TSAB-40	Jonard	Adjustable Blade Thermal Stripper
The above Jonard tools require a platform for operation (sold separately)		
S010340	AFL Tele.	HJS-02 Hot Jacket Stripper (12 fibers max)
S012960	AFL Tele.	HJS-03-24 Hot Jacket Stripper (24 fibers max)
Both the HJS-02 and HJS-03-24		-Require a fiber holder if not equipped with the SAD-01 single fiber adapter (sold separately) -Require AC adapter if not being used with an AFL fusion splicer (sold separately)
MS-4T-06S-13-FS	Micro Electronics	Soft-Strip 250/125um Thermal Stripper
MS-4T-08S-40-FS	Micro Electronics	Soft-Strip 900/125um Thermal Stripper
MS-3T-06-G2	Micro Electronics	Soft-Strip 12 Fiber Thermal Ribbon Stripper
The above Micro Electronics tools require the MS-T3 AC Adapter (sold separately)		

Specifications may change without notice

Thermal Buffer Strippers

Jonard Buffer Stripper Platforms

Part Number	Description
TSUC-40	Universal Clamp
TSFP-125	Fitel - Fujikura Style Platform
TSPE-125	Ericsson Style Platform

AFL Telecommunications Hot Jacket Stripper Accessories

Part Number	Description	Part Number	Description
S012964	HJS-03-24PA Power Assist Tool for HJS-03-24		
S014389	ADC-09 AC Adapter for HJS-02 and HJS-03-24. (Requires Power Cord, p/n S014390)		
S014390	ACC-09 Power Cord for ADC-09 AC Adapter		
S010428	SAD-01 Single Fiber Adapter for HJS-02		
S010436	Replacement Blade for HJS-02 Hot Jacket Stripper		

Fiber Holders

S013800	FH-50-250 (250 micron-single fiber)	S013804	FH-50-900 (900 micron-single fiber)
S013808	FH-50-2 (2 Fiber)	S013812	FH-50-4 (4 Fiber)
S013816	FH-50-6 (6 Fiber)	S013820	FH-50-8 (8 Fiber)
S013824	FH-50-10 (10 Fiber)	S013828	FH-50-12 (12 Fiber)
S012988	FH-16 (16 Fiber)	S012968	FH-24 (24 Fiber)

Micro Electronics Soft-Strip Accessories

Part Number	Description	Part Number	Description
MS-CB-1	Single-sided Blade Cleaning Brush.	MS-CB-2	Double-sided Blade Cleaning Brush.
MS-PT-1	Blade and Guide Removal Tool	MS-BR-1	AA Ni-MH Battery Recharger.
MS-BC-2	6V Battery with Leather Case.	MS-BL	6V Battery Leads

AC Adapters

MS-T3	North America and Japan	MS-T5	Europe, China, Middle and Far East
MS-T4	England and Hong Kong	MS-T6	Australia and New Zealand

Handle Assemblies

MS-4T-E	Single Fiber, AC & 6V Battery Pack	MS-3T-E	Multi-Fiber, AC & 6V Battery Pack
MS-4B-E	Single Fiber, AA Battery Pack	MS-3B-E	Multi-Fiber, AA Battery Pack

Replacement Heater Cartridges

MS-4T-E	1" Heater Carridge for MS-3B and MS-4B tools only. (30mm Maximum Strip Length)
MS-4B-E	2" Heater Carridge for MS-3T and MS-4T tools only. (60mm Maximum Strip Length)

Custom Fiber Strippers



Micro Electronics

Micro-Strip & Soft-Strip Fiber Optic Buffer Strippers

Micro-Strip stripping tools from Micro Electronics strip buffered fiber up to 2360um, quickly and easily. You can use two standard handles with interchangeable cutter blade sets, fiber guides and fiber guide locks to strip and install the proper cutter blade sets, tube guides, and tube guide locks.

Soft-Strip stripping tools from Micro Electronics have integral heating elements which enable them to soften and strip such coatings and insulations as Mylen, KAPTON, TEFLON, PVC, and HYTREL. The Soft-Strip system permits precise stripping of these tough coatings with less than three pounds of peak pulling force for multi-fiber- ribbon, and less than one pound for single fiber. The result is no fiber damage and higher quality splices and connections. Units are available for optical fiber (180-1000um) and all standard multifiber ribbons (encapsulated, bonded, and ribbonized types). Custom tools are also available.

Ordering Information

Part Number	Description
MS1- XX S- YY -FS	Micro-Strip® MS1 Fiber Stripping Tool.
MS-4T- XX S- YY -FS	Soft-Strip® MS4 Thermal Single Fiber Stripping Tool. AC or 6V Battery Powered.
MS-4B- XX S- YY -FS	Soft-Strip® MS4 Thermal Single Fiber Stripping Tool. AA Battery Powered.

* Replace the "XX" and "YY" with the Blade Set and Tube Guide numbers found on the tables below.

Blade Sets

XX	Fiber Cladding	Blade Diameter	Replacement Blade Set*	Blade Color
04	up to 80 um	.0045 (114um)	MS1-RB-04S	Clear
05	85 - 120 um	.0055 (140um)	MS1-RB-05S	Lavender
06	125 - 135 um	.0063 (160um)	MS1-RB-06S	Purple
08	125 - 175 um	.0080 (203um)	MS1-RB-08S	Red
10	180 - 230 um	.0100 (254um)	MS1-RB-10S	Light Blue
12	235 - 280 um	.0120 (305um)	MS1-RB-12S	White
14	285 - 330 um	.0140 (356um)	MS1-RB-14S	Dark Green
16	335 - 380 um	.0160 (406um)	MS1-RB-16S	Orange
18	385 - 430 um	.0180 (457um)	MS1-RB-18S	Yellow
21	435 - 500 um	.0210 (533um)	MS1-RB-21S	Royal Blue
23	505 - 550 um	.0230 (584um)	MS1-RB-23S	Maroon
25	555 - 600 um	.0250 (635um)	MS1-RB-25S	Light Green
28	605 - 680 um	.0280 (711um)	MS1-RB-28S	Black
31	685 - 750 um	.0310 (787um)	MS1-RB-31S	Tan
34	755 - 830 um	.0340 (864um)	MS1-RB-34S	Pink
37	835 - 900 um	.0370 (940um)	MS1-RB-37S	Gray
44	905 - 1050 um	.0440 (1118um)	MS1-RB-44S	Dark Brown
54	1055 - 1350 um	.0540 (1372um)	MS1-RB-54S	Natural

*Replacement Blade Sets include two cutter blade sets packaged together with a matching fiber guide lock. Each blade set consists of a pair of joined, matched blades which must be snapped apart prior to use. Matched cutter blade sets are NOT interchangeable, and must only be used with their matching half.

Tube Guides

YY	Part Number	Buffer Diameter
07	MS1-RT-07	up to 180 um
10	MS1-RT-10	180 - 250 um
13	MS1-RT-13	250 - 343 um
16	MS1-RT-16	343 - 407 um
18	MS1-RT-18	407 - 457 um
21	MS1-RT-21	457 - 533 um
25	MS1-RT-25	533 - 635 um
31	MS1-RT-31	635 - 787 um
35	MS1-RT-35	787 - 889 um
40	MS1-RT-40	889 - 1016 um
46	MS1-RT-46	1016 - 1168 um
52	MS1-RT-52	1168 - 1321 um
55	MS1-RT-55	1321 - 1397 um
63	MS1-RT-63	1397 - 1600 um
67	MS1-RT-67	1600 - 1702 um
70	MS1-RT-70	1702 - 1778 um
76	MS1-RT-76	1778 - 1930 um
81	MS1-RT-81	1930 - 2057 um
86	MS1-RT-86	2057 - 2184 um
93	MS1-RT-93	2184 - 2362 um

Custom Fiber Strippers



Miller

No-Nik Fiber Optic Buffer Strippers

Features & Benefits

- 22 different patented NO-NIK® tools in sizes ranging from 102 to 1,372 microns
- Accurate to -0mm, +.0127mm
- Exclusive centering device positions fiber/wire for precise scoring and removal of buffer/insulation
- Razor-sharp blades score buffer/insulation without cutting through it
- Color-coded, cushion-grip handles for quick identification
- Plastic heads, which make contact only with the buffer/insulation, center and support your work on both sides
- Cutting blades made from razor quality steel score the buffer/insulation completely
- Back-up blades support the cutting blades, nest positively, and "lock up" when the tool is closed to maintain perfect concentricity
- Buffer/insulation being removed acts as guide and protection for the fiber/wire
- Stripping blade diameter clearly marked on plastic head
- Arrow indicates direction pressure should be applied when stripping



Miller

FO103S Fiber Optic Buffer Strippers

Features & Benefits

- For stripping 250 micron buffer coating from 125 micron optical fiber and other custom sizes
- Precision diameter hole & V-opening in blade allow for accurate buffer coating removal
- Factory set, requires no adjustment
- Prevents scratching or nicking of optical fiber
- All cutting surfaces are precision formed, hardened, tempered and ground assuring precise buffer removal
- Made in the USA

Fiber Cladding	No-Nik Part Number	No-Nik Handle	FO103S Part Number
85-120um	NN102	Navy	FO103-S100
	NN127	Silver	FO103-S140
125 - 175um (< 500um Buffer)	NN152	Gold	FO103-S150
			FO103-S162
	NN175	Mustard	FO103-S175
			FO103-S187.5
125 - 175um (> 500um Buffer)	NN203	Red	FO103-S200
			FO103-S225
	NN254	Lt. Blue	FO103-S250
			FO103-S280
235 - 280um	NN305	White	FO103-S300
435 - 500um	NN021	Royal Blue	FO103-S525
905 - 1050um	NN1118	Brown	--
1055 - 1350um	NN1372	Clear	--

Jacket & Buffer Strippers



Miller

CFS-2 Jacket & Buffer Stripper

- For stripping 125 micron fiber with 250 micron buffer coating
- 1.0 mm diameter stripping hole at the tip of the tool can be used to strip the fiber jacket
- 140um diameter hole & V-opening in blade allows removal of 250 micron buffer coating from 125 micron fiber
- Pre-set at the factory - no adjustments needed
- Will not scratch or nick glass fiber
- All stripping surfaces are manufactured to precise tolerances to assure clean, smooth strips
- Comfort-grip, ergonomic handles
- Lock to hold tool closed when it is not in use



Miller

FO-103-D-J "Dual Hole" Jacket & Buffer Stripper

- Second hole for stripping 2-3mm fiber jackets & standard 125um stripping (250um removal to 125um)
- New Dual hole model offer the same quality of our standard FO 103-S fiber tool coupled with a second hole
- Easy-to-read stripping diagrams imprinted on handles



Miller

FO-103-T-250-J "Tri-Hole" Jacket & Buffer Stripper

- New 3-hole model performs all common fiber stripping functions in one compact tool
- Standard 250 to 125 micron stripping
- Remove 900 tight buffer to 250 micron buffer coating
- Hole for removal of 2-3mm fiber jackets
- Same consistent quality and features found in our standard FO 103-S tool
- Also available: FO 103-T-400-250 Fiber Optic Stripper for 400 micron coated PM Fiber



Ideal

45-350 Lite-Strip Jacket & Buffer Stripper

- V-notch blades strip a wide range of outer cable jacket insulations
- Replaceable precision-ground blades cleanly strip insulations and coatings
- New funneled hold makes cable insertion easier
- Improved spring mounting returns handles to original position after every application
- One-step, 900 micron stripping hole provides broader stripping range
- Extra durable to withstand normal drops without requiring tool alignment
- New gauge color makes fiber and hole identification easier
- Improved comfort-grip handles for an easier, more comfortable stripping process



Ideal

45-352 MiniLite-Strip Jacket & Buffer Stripper

- Small stripping v-notch is designed to remove buffer and coating material from 125μ fiber
- Large stripping v-notch is designed to strip wide range of outer cable jacket insulations
- Blade area heat-treated for durability
- Laser marked for easy identification
- Extra durable to withstand normal drops without requiring tool realignment

Jacket & Buffer Strippers



Jonard

JIC-375 3-Hole Jacket & Buffer Stripper

- Three hole Fiber Optic Stripper model performs all common fiber stripping functions.
- This Fiber Optic Stripper strips the 1.6 - 3 mm fiber jacket down to the 600-900 micron buffer coating.
- The second hole strips the 600-900 micron buffer coating down to the 250 micron coating.
- The third hole is used to strip the 250 micron cable down to the glass fiber without nicks or scratches.



Paladin Tools

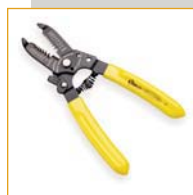
PA-1163 FiverOptic Jacket & Buffer Stripper

- Separate stripping cavities for each separate function
- Strips outer jacket from 2.0-2.4 mm, 2.8-3.0 mm and 2.0-3.0 loose tube fiber
- Strips 900um buffer from loose buffer without removing acrylate
- Strips buffer and acrylate from 900/125um and 250/125um fiber
- Rubber-embedded handles
- Locking handle for safe transport
- Ergonomic design ensures optimum comfort, ease of use and prevents awkward wrist bends
- Precision, CNC-formed stripping areas for reliable, accurate strips
- Factory calibrated and locked so that it stays set

Ordering Information

Part Number	Manufacturer	Description
CFS-2	Miller	Fiber Optic Jacket and Buffer Coating Stripper
FO-103-D-J	Miller	"Dual-Hole" Fiber Optic Jacket and Buffer Coating Stripper
FO-103-T-250-J	Miller	"Tri-Hole" Fiber Optic Jacket and Buffer Coating Stripper
45-350	Ideal	Lite-Strip Fiber Optic Jacket and Buffer Coating Stripper
45-352	Ideal	MiniLite-Strip Fiber Optic Jacket and Buffer Coating Stripper
JIC-375	Jonard	3-Hole Fiber Optic Jacket and Buffer Coating Stripper
PA-1163	Paladin Tools	FiverOptic Fiber Optic Jacket and Buffer Coating Stripper

Simplex Jacket Strippers



Miller

Multi-Wire Strippers/Cutters

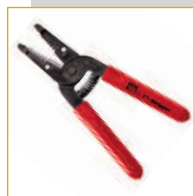
- AWG/mm wire sizes embossed/pad printed on tool
- Cushion grips for comfort
- Serrated plier-type nose for wire pulls and loops
- Handle lock mechanism for compact and protective storage for ease of use with pouch
- Wire looping/bending holes conveniently located
- Automatic return spring for ease of use and speed
- Compact and lightweight with narrow nose design
- Black oxide finish for extra corrosion protection
- All cutting surfaces are precision formed, hardened, tempered and ground, assuring clean, accurate strips



Miller

CS8 Plier / Wire Cutter / Wire Stripper / Crimper / Bolt Cutter

- Groove-grip plier nose at tip for wire pulling and bending capability
- By-pass scissor action for cleaner cut than conventional "chisel" cut.
- Hardened blade so cutting surfaces stay sharper, longer.
- Strips AWG 10 to AWG 20 - 22 wire
- Complete selection of crimp stations for non-insulated (7-8mm Auto, AWG 10 to 20-22 Electrical) and insulated (AWG 10 to AWG 22 Electrical) common solderless connectors
- Threaded bolt cutters prevent damage to 6 popular bolts - 4-40, 5-40, 6-32, 8-32, 10-32, 10-24



Ideal

Premium T-Stripper Wire Stripper

- Form-ground, hardened, knife-type blades for accurate stripping
- Tough steel construction
- Built-in wire cutter and wire looping holes
- Plier nose for extra gripping strength
- Laser etched wire gauge markings
- Spring-loaded automatic opening
- Corrosion resistant, black oxide finish
- Contoured, comfort-grip handles to reduce operator fatigue

Ordering Information

Part Number	Manufacturer	Recommended Cable Diameter*	Wire Range		Description
			AWG	mm	
721	Miller	3.0mm and Up	22 to 10	0.6 to 2.6	Multi-Wire Stripper
821	Miller	2.0mm to 3.0mm	26 to 16	0.4 to 1.3	Multi-Wire Stripper
921	Miller	Up to 2.0mm	30 to 20	0.25 to 0.8	Multi-Wire Stripper
CS8	Miller	3.0mm and Up	22 to 10	0.6 to 2.6	Plier / Wire / Cutter / Wire Stripper / Crimper / Bolt Cutter
45-215	Ideal	2.0mm to 3.0mm	20 to 12	0.8 to 2.0	Premium T-5 T-Stripper
45-216	Ideal	1.6mm to 2.0mm	26 to 16	0.4 to 1.3	Premium T-6 T-Stripper
45-217	Ideal	Up to 1.6mm	32 to 24	0.2 to 0.5	Premium T-7 T-Stripper
45-218	Ideal	3.0mm and Up	16 to 8	1.3 to 3.26	Premium T-8 T-Stripper

*Recommended Cable Diameter Only. Other jacket sizes can be determined by the stripper's wire range capabilities.

Multi-Fiber Jacket Strippers



Ideal

45-349 Simplex/Duplex 3mm Jacket Stripper

- Designed to remove the jacket from 3mm Simplex or Duplex fiber optic cable
- Form-ground, knife type blades for accurate easy stripping without damaging the fiber or Kevlar®
- Contoured, comfort-grip handles to reduce operator fatigue



Stride Tool

IFO-1200 Imperial Simplex/Duplex 1.6 - 3mm Jacket Stripper

- Quickly and easily strips jacket from 3 mm, 2 mm, and 1.6 mm Simplex or Duplex Zipcord
- Will not damage the fiber or the Kevlar® strength member
- Ergonomic, non-slip comfort-grip handles
- Precision-ground blades produce consistent clean strips

Ordering Information

Part Number	Manufacturer	Cable Diameter	Description
45-349	Ideal	3.0 mm	Jacket Stripper for 3mm Simplex and Duplex Cable
IFO-1200	Stride Tool	3.0, 2.0, 1.6 mm	Imperial Duplex Jacket Stripper for 3, 2 and 1.6mm Zip-Cord



Miller

FO-R12 Ribbon Fiber Jacket Stripper

- Removes out jackets from 12 count fiber ribbons
- Factory set, requires no adjustment
- Prevents scratching and nicking of optical fibers
- All cutting surfaces are precision formed, hardened, tempered and ground



Stride Tool

IFO-1212 Ribbon Fiber Jacket Stripper

Quickly and easily strips jacketing from 12-fiber ribbon cable.

Ordering Information

Part Number	Manufacturer	Description
FO-R12	Miller	Jacket Stripper for 12-Fiber Ribbon Cable
IFO-1212	Stride Tool	Jacket Stripper for 12-Fiber Ribbon Cable

Buffer Tube Strippers



Corning

Midspan Fiber Access Tools

OFT-000

The Optical Fiber Access Tool (OFAT) is designed to provide mid-span fiber access in standard Corning Cable Systems ALTOS® Cables. This rugged hand tool will accommodate buffer tubes from 2.4 to 3.0mm. The OFAT clamps over a buffer tube. As the tool is pulled along the buffer tube, two offset blades slit the tube without damaging fibers inside.

UAT-3000

Same as the OFT-000 tool but designed to work with 5mm to 24mm tubes.

Ordering Information

Part Number	Description
OFT-000	Mid-Access Entry Tool for 2.4mm to 3.0mm Tubes
OFT-001	Replacement Blade for OFT-000
UAT-3000	Mid-Access Entry Tool for 5mm to 24mm Tubes
UAT3-BLADES	Replacement Blade for UAT-3000



Miller

MSAT Midspan Fiber Access Tools

- Quickly and easily access fibers in 2, 2.5 and 3mm buffer tubes in a mid-span location without fiber damage
- All blades precisely factory mounted in tube slitting channels with no adjustment required by the installer
- Tool design incorporates buffer tube size gages on the tool body for easy tube selection
- Convenient spring loaded lever opens and closes the tool
- Lever becomes flush with the top of the tool body when closed
- For use with the following diameter buffer tubes:
 - 2.0mm / 1.8-2.2 mm (0.071"- 0.086")
 - 2.5mm / 2.3-2.8 mm (0.090"-0.110")
 - 3.0mm / 2.8-3.2 mm (0.110"- 0.126")

Ordering Information

Part Number	Description
MSAT	Midspan Fiber Access Tool for 2.0 to 3.0mm Tubes
80794	Replacement Blade for MSAT and FDS-2-3MM tools. (2/set)

Buffer Tube Strippers



Ideal

Rotary Buffer Tube Strippers

- Adjustable blades can be set for any depth to help ensure nick-free strips
- Use with fiber optic loose tube, twisted-pair wire, tightly wrapped stranded cables, CATV cable, CB antenna cable, SO, SJ, SJT and other types of flexible power cords
- Includes 3 straight and 1 round blade

Ordering Information

Part Number	Description
45-162	Rotary Buffer Tool Stripper, Grey. (up to 3.2mm)
45-163	Rotary Buffer Tool Stripper, Blue. (3.2mm to 5.5mm)
45-164	Rotary Buffer Tool Stripper, Blue. (6.4mm to 14.3mm)
45-165	Rotary Buffer Tool Stripper, Black. (4.8mm to 8mm)
L-9225	Replacement blades for 45-164.
L-9226	Replacement blades for 45-162, 45-163 and 45-165.

Kevlar Shears



Miller

FOKC Kevlar Shears

- Designed to cut Kevlar® strength members in fiber optic cables
- Powerful quick cutting action
- Full serrated edge for consistent, fast and clean cuts
- Made of high carbon steel specially treated for long life and trouble free cuts



Miller

KS-1 Kevlar Shears

- Lightweight shears ideal for cutting Kevlar® strength members found in fiber optic cable construction
- Ergonomic molded handles provide comfort for both right and left handed users
- One micro-serrated blade reduces slippage for more positive cutting action
- Blades made from high carbon molybdenum, and vanadium steel for long life



Miller

86 1/2 Series Kevlar Shears

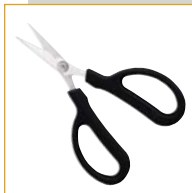
- High leverage tool for cutting, trimming and slicing through fibers and other tough industrial materials
- Hot-forged, high carbon steel for long life
- Quick action spring response and two sharp points
- 86 1/2SF has red cushioned grips



Miller

KC699 Kevlar Shears

- Soft, cushioned oversized bows for operator comfort
- Blades are hardened stainless steel with a fine serration on one blade to grip Kevlar® fibers and prevent slipping while cutting
- Ambidextrous handles for right- and left-hand use



Ideal

45-344 Kevlar Shears

- Two-Step process significantly increase the life of this rugged tool
- Superior quality provides the super-hard edges need to stand up to today's demands
- Blades are machined from superior quality high-carbon stainless steel
- Textured cushioned-grip handles



Jonard

JIC-186 Kevlar Shears

- High carbon stainless steel blades designed to cut Kevlar®, cabling insulation, tape, cable ties and other material.
- Ergonomic handles for user comfort and durability. Adjustable joint screw under protective cap, serrated blades grip material, sharp and durable 6" long.

Kevlar Shears



Paladin Tools

1511 Kevlar Shears

- Hard-chromed serrated edges to easily cut through Kevlar
- Comfortable handles with large finger openings



Kyocera

PA-1510A Ceramic Kevlar Shears

- Kevlar shear with Ceramic blade for extended life

Ordering Information

Part Number	Manufacturer	Description
High Carbon Stainless Steel		
FOKC	Miller	Kevlar Shears
KS-1	Miller	Kevlar Shears
KS-1P	Miller	Kevlar Shears with Pouch
86 1/2S	Miller	High Leverage Kevlar Shears
86 1/2SF	Miller	High Leverage Kevlar Shears with Cushioned Grips
45-344	Ideal	Kevlar Shears with Breaker Notch
JIC-186	Jonard	Ergonomic Kevlar Shears
Hardened Stainless Steel		
KC699	Miller	Kevlar Shears
Hard Chromed Stainless Steel		
1511	Paladin Tools	Kevlar Shears
Ceramic		
PA1510A	Kyocera	Ceramic Kevlar Shears

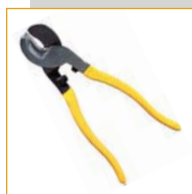
Heavy Duty Cable Cutters



Miller

CXC Heavy Duty Cable

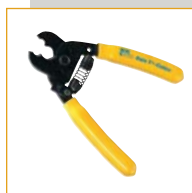
- CXC (yellow handle) effective for cutting up to 0.75 in (19mm) trunk cables
- CXC (blue handle) effective for cutting up to 1.00 in (25.4mm) trunk cables
- Cuts with no cable distortion
- Lightweight, easy to use, compact



Ideal

35-052 Cable Cutter for 2/0 and Smaller Cable

- Drop-forged high carbon steel construction
- Precision ground, hardened cutting edges provide accurate cuts without cable distortion
- Designed for maximum leverage
- Cuts 2/0 and smaller aluminum and copper cables
- Vinyl coated, comfort-grip handles
- Lifetime guarantee



Ideal

45-074 Data T-Cutter

- Cuts round communication cables up to 0.5 inch (12.7mm) and coaxial cable up to RG-9/U
- Curved cutting blades maintain cable geometry for better cable performance
- Steel reinforced center conductors can be trimmed with bolt cutting holes
- Cushioned comfort grip handles
- Locking latch keeps tool closed in pouch



Miller

ACS Armored Cable Slitter

- Professional grade tool, ideal for slitting the corrugated copper, steel or aluminum armor layer on the Fiber Feeder, Central Tube, Stranded Loose Tube fiber optic cables and other armored cables
- Versatile design allows jacket or shield slitting on non-fiber optic configurations as well
- Tool slits outer polyethylene jacket and armor in one operation...
- Performs longitudinal slitting and circumferential (ringing) for end stripping
- Blade rotates 90 degrees by activating blade lever, allowing easy midspan preparation (ringing and slitting)
- Adjustable from 0.315" (8mm) to 1.125" (28.6mm) cable O.D.
- "Roller" style cable follower provides cable stability and allows for easier tool movement along the cable
- Rugged anodized aluminum and steel construction

Ordering Information

Part Number	Description
CXC	Miller Heavy Duty Cable Cutter (up to 19mm)
CXC-1	Miller Heavy Duty Cable Cutter (up to 25.4mm)
35-052	Ideal Cable Cutter for 2/0 and Smaller Cable
45-074	Ideal Data T-Cutter (up to 12.7mm)
ACS	Miller Armored Cable Slitter (8mm to 28.6mm)
CB251-K	Miller ACS Replacement Blade Assembly

Ring Tools



Miller

RCS Series Rotary Cable Strippers

- Designed for fast, safe, precise jacket removal of PE, PVC, rubber & other jackets
- Rotary cut to a longitudinal cut along the cable length for end stripping
- Spiral cut for end stripping & mid-span stripping
- Adjustable blade depth
- RCS-114 and MK02 are for smaller cables: (4.5mm to 28.5mm)
- RCS-158 is for medium sized cables: (19mm to 40mm)



MK Series Rotary Cable Strippers

- MK04 is for larger sized cables: (20mm to 60mm)
- MK02 has a spring-loaded ripping blade at the base of the tool to facilitate insulation removal
- MK02 Spherical Blade for softer insulation is standard; Chisel point blade for harder coverings optional

Ordering Information

Part #	Description	Part #	
RCS-114	Rotary Stripper (4.5 - 29mm)	RCS-158	Rotary Stripper (19 - 40mm)
CB231	RCS-114/158 Rotary Stripper Replacement Blade		
MK02	Rotary Stripper w/ Hook Blade (4.5 - 28.5mm)	MK02M	Rotary Stripper w/o Hook Blade (4.5 - 28.5mm)
39391	MK02 Replacement Spherical Cutting Blade (5/set)	39392	MK02 Replacement Chisel Point Blade (5/set)
MK04	Cable Stripper (20 -60mm)	39379	MK04 Replacement Fixed Blade Assembly
39377	MK04 Replacement Fixed Blade Cartridge (FC2)	39378	MK04 Replacement Fixed Blade Cartridge (FC3)

Sheath Strippers



FOD SPEED SLITTER

FTTH Drop Cable Splitting Tool

This tool was specifically designed for FTTH technicians working with flat fiber drop cables. The FOD SPEED SLITTER™ opens cable jackets easily and safely with one pull. A simple twist of the cable allows the jacket and strength members to separate from the buffer tube leaving fiber undamaged. Just snip off the loosened jacket and splice!

Ordering Information

Part #	Description	Part #	
ACFO2000	FOD SPEED SPLITTER w/ 2 Spare Blades	AC11782B	ACFO2000 Replacement Blades (5/set)



Miller

FDS Fiber Drop Stripper

- Designed for stripping Flat Drop Fiber Cable used in FTTH "Fiber to the Home" applications
- ONE STEP stripping action that removes the jacket in two locations to expose the dielectric strength members and allowing the quick removal of the jacket
- Tool is small and has a lightweight polymer body for ease of use
- Easily strips Flat Drop lengths of 2-15 feet plus

FDS-2-3MM Fiber Drop Stripper & Buffer Tube Slitter

- Multi-purpose tool designed for stripping Flat Drop Fiber jacket and accessing 2 mm and 3mm buffer tubes on (FTTH) "Fiber to the Home" applications
- Three individual stripping channels in one compact tool for jacket removal & 2mm and 3mm buffer tube slitting
- Lightweight polymer body
- T-bar handle grip design for extra ease of jacket stripping

Ordering Information

Part #	Description	Part #	
FDS	Fiber Drop Stripper	FDS-2-3MM	Fiber Drop Stripper & Buffer Tube Slitter
CB229	Drop Stripper Replacement Blade (1 ea)	80794	Tube Slitter Replacement Blade (2/set)

Note: 2 each CB229 and 2 sets of 80794 required to replace all the blades on the FDS-2-3MM



Jonard

JIC-4366 Optical Fiber Cable Sheath Stripper & Ring Tool

This Cable Sheath Stripper is used for stripping and butting tight buffer optical fiber cables. Use one blade to butt PVC sheathing and use the second blade to strip the sheathing.

Adjustable for .018" or .031" thick plastic, rubber or fabric insulation. One spare blade of each style is included with the tool.

Ordering Information

Part #	Description	Part #	
JIC-4366	Optical Fiber Cable Sheath Stripper & Ring Tool		
RB-2060/6	JIC-4366 Replacement Ringing Blades (6/set)	RB-2878/6	JIC-4366 Replacement Stripping Blades (6/set)

Splicer's Scissors & Knives



Miller

925 Series Splicer's Scissors

- Multi-purpose service tool
- All exterior surfaces & interior blade surfaces double-plated w/ chrome over nickel to prevent rust & corrosion
- Use for splicing wire; cutting harness ties, insulation materials, medium gauge wires, electrical tape and stripping insulation
- Stripping notches for 19 and 23 gauge wire
- 1.75" Length of Cut
- Scraper and file on back of blade
- Available in a Knife and Scissor Kit

Length: 4.95 in (127.0mm)



Ordering Information

Part Number	Description
925C	Splicer Scissors with notches
925CS	Splicer Scissors Serrated with notches
925CS-ERGO	Ergonomic Splicer Scissors Serrated with notches
925CS-KIT	Kit containing CSH96 Holster, 925CS Scissors and CK6 Knife



Miller

CK6 Splicer's Knife

- Tough, Coping-Style Blade
- Forged Steel
- Full-Size, High-Dielectric, Red-Cushioned Handle

Length: 6.2 in (159.0mm)

Ordering Information

Part Number	Description
CK6	Splicer Knife, Full Size, High-Dielectric and Red-Cushioned Handle
CSH96	Leather Knife and Scissor Holster for the 925C or 925CS Splicer's Scissors and the CK6 Splicer's Knife.



Ideal

35-091 Splicer's Knife

- High-carbon steel blade remains sharp and cuts easily through many insulation types
- Comfortable, full size, no slip handle for easy use
- Durable leather holder

Ordering Information

Part Number	Description
35-091	Splicer Knife and Holster

Crimp Tools



Paladin

1300 Series Crimp Tools

The original interchangeable-die crimping system with 5 die sets available.

Ordering Information

Part Number	Die Set	Description
PA-1330	2043	3 Cavity Crimp Tool (HEX .151" .178" .213") - SMA/FC
PA-1331	2030	3 Cavity Crimp Tool (RND .190" .160" .132") - AMP (Tyco)
PA-1362	2652	5 Cavity Crimp Tool (HEX .128" .151" .215" .197" .178") - SCII, FC, SMA
PA-1364	2654	3 Cavity Crimp Tool. (.190" HEX .105" RND .090" RND) - Lucent STII
PA-1369	2669	3 Cavity Crimp Tool (RND .120" .137" .190") - 3M SC-FC
PA-1375	2685	4 Cavity Crimp Tool (.151" HEX .178" HEX LC RND .190" RND) 3M SC/ST & Lucent/Krone LC, SMA, FC, MT-RJ
PA-1302	NA	Crimp Frame Only



Amphenol

927-1180 5 Cavity Crimp Tool

- .105" Hex
- .137" Hex
- .151" Hex
- .178" Hex
- .255" Hex



FiberSource

FS00068-U 5 Cavity Crimp Tool

- .118" Hex
- .120" Round
- .128" Hex
- .137" Round
- .190" Round



Jonard

UC-8039 5 Cavity Crimp Tool

- .134" Round
- .139" Hex
- .151" Hex
- .178" Hex
- .190" Round

Ordering Information

Part Number	Description
927-1180	Amphenol 5 Cavity Crimp Tool (Hex .105" .137" .151" .178" .255")
FS00068-U	FiberSource 5 Cavity Crimp Tool (Hex .118" .128" / RND .120" .137" .190")
UC-8039	Jonard 5 Cavity Crimp Tool (Hex .139" .151" .178" / RND .134" .190")

Fiber Optic Scribes

HANDTOOLS



Miller

DS-60-C & DS-90-W Diamond-Tip Scribes

- Quality fiber optic scribes featuring a protective retractable barrel with pocket clip and a stainless steel mounted diamond tip in your choice of conical or wedge shapes.
- These scribes are specially made for the "scratch and pull" technique of scribing optical fiber. The wedge shape provides a more durable edge.



Miller

CS-30-W Carbide-Tip Scribe

- The CS-30-W is a 30-degree wedge-tip carbide scribe 3.8mm wide for long life and simple fiber termination
- Housed in a rugged, anodized aluminum casing 112mm long and 25mm in diameter, the CS-30-W fits comfortably in either hand and in your pocket or tool kit
- The CS-20-W includes a convenient pocket clip and soft, brightly colored, protective "Squeeze and Pull" cap for easy and quick tool selection.



Miller

CS-30-DE Double End Carbide-Tip Scribe

- Reversible carbide blade edged on both ends to double the life of the tool
- 5mm wide blade wider than conventional scribe blades for greater visibility
- "Soft feel" grip on rugged anodized aluminum casing
- Hex-shaped end to prevent scribe from rolling off work table
- Plastic cap protects blade when tool is not in use
- Convenient pocket clip
- Carbide Blade Replacement Part No.: 46122



Ideal

Ruby, Sapphire & Carbide "Reversible" Scribes

- Professional quality blade styles to choose from to meet specific needs
- Easy handle identification: Ruby = Red / Sapphire = Blue / Carbide = Black
- 30 degree single bevel - DualScribe™ reversible blade doubles tool life
- Soft non-slip grip provides precise control during scribing
- Clear safety cap protects the blades from damage when not in use



Bruce Diamond

Diamond & Sapphire Scribes

- Features the best surface finish attainable
- Optimum cutting edge that lends itself to high accuracy and long life
- Wedge or Cone tips
- Available in Pen & Cap or Twist-Retractable Form



Molex Fiber Optics

Connector Cleave Tools

The Molex cleave tool is designed to repeatedly and accurately cleave the fiber at a controlled length just above the surface of the ferrule. This eliminates the need for a bead of epoxy and extensive operator training. The result is a substantial reduction in polishing time and a significant improvement in production yield.

Fiber Optic Scribes

Ordering Information

Part Number	Manufacturer	Description
Diamond - Wedge		
DS-90-W	Miller	90° Wedge Tip Diamond Scribe (Click-Retractable)
RHS/FO-DW	Bruce Diamond	90° Wedge Tip Diamond Scribe (Twist-Retractable)
UHS/FO-DW	Bruce Diamond	90° Wedge Tip Diamond Scribe (Pen & Cap)
Diamond - Cone		
DS-60-C	Miller	60° Cone Tip Diamond Scribe (Click-Retractable)
RHS/FO-DC	Bruce Diamond	60° Cone Tip Diamond Scribe (Twist-Retractable)
UHS/FO-DC	Bruce Diamond	60° Cone Tip Diamond Scribe (Pen & Cap)
UHS-800-60	Bruce Diamond	60° Economy Cone Tip Diamond Scribe (Pen & Cap)
Carbide - Wedge		
CS-30-W	Miller	30° Wedge Tip Carbide Scribe (Pen & Cap)
CS-30-DE	Miller	Double End 30° Wedge Tip Carbide Scribe (Pen & Cap)
45-359	Ideal	DualScribe Reversible 30° Wedge-Tipped Carbide Scribe (Pen & Cap)
Sapphire - Wedge		
45-358	Ideal	DualScribe Reversible 30° Wedge-Tipped Sapphire Scribe (Pen & Cap)
RHS/FO-SAPHW	Bruce Diamond	90° Wedge Tip Diamond Sapphire (Twist-Retractable)
Ruby - Wege		
45-357	Ideal	DualScribe Reversible 30° Wedge-Tipped Ruby Scribe (Pen & Cap)
Connector Cleave Tools		
86753-2000	Molex	2.5mm Universal Cleave Tool (ST, STII, FC, SC, FDDI, ESCON)
86773-2000	Molex	LC Cleave Tool
86755-2000	Molex	FC/APC and SC/APC Cleave Tool

Polishing Pucks

For smaller jobs or for working in the field, hand polishing can be the most cost effective solution. Although hand polishing is typically recommended for multimode applications, it is possible to achieve adequate results in single mode as well. FOC offers the following polishing pucks as well as hand polishing procedures to go with them. Please contact us for technical assistance or more information.

Ordering Information

Part Number	Type	Mfgr	Description
2.5mm Universal for FC, SC or ST Connectors			
CSS-PC2.5A	2.5mm	CSS	Stainless Steel 2.5mm Universal Polishing Puck. (Wet or Dry Polishing)
EFA60 04 ASSY	2.5mm	EGIDE	Stainless Steel 2.5mm Universal Polishing Puck. (Dry Polishing)
EFA64 01 001	2.5mm	EGIDE	Glass Filled Nylon 2.5mm Universal Polishing Puck. Up to 500 Polishes
1.25mm Universal for LC or MU Connectors			
CSS-PC1.25	1.25mm	CSS	Stainless Steel 1.25mm Universal Polishing Puck. (Wet or Dry Polishing)
EFA60 06 ASSY	1.25mm	EGIDE	Stainless Steel 1.25mm Universal Polishing Puck. (Dry Polishing)
EFA64 10 001	1.25mm	EGIDE	Glass Filled Nylon 1.25mm Universal Polishing Puck. Up to 500 Polishes
Connector Specific			
GSR-PP-006	Biconic	GSR	Stainless Steel Biconic Polishing Puck
106750-1000	FC	Molex	Stainless Steel FC Polishing Puck
106755-1000	FC/APC	Molex	Stainless Steel FC/APC Polishing Puck
106730-1000	FDDI	Molex	Stainless Steel FDDI Polishing Puck
HFBR-4593	HFBR-45XX	Agilent	Plastic HFBR-45XX Polishing Kit. Includes polishing puck and paper.
CSS-LC	LC	CSS	Stainless Steel LC Polishing Puck (Wet or Dry Polishing)
CSS-LC/APC	LC/APC	CSS	Stainless Steel LC/APC Polishing Puck (Dry Polishing)
900-118-1305	LC Duplex	Stratos	Plastic LC Duplex Polishing Puck
EFA64 08 001	MTRJ	EGIDE	Stainless Steel MTRJ Polishing Puck
EFA64 08 002	MTRJ	EGIDE	Glass Filled Crastin MTRJ Plastic Polishing Puck. Up to 500 polishes.
106763-1000	SC	Molex	Stainless Steel SC Polishing Puck
86765-1000	SC/APC	Molex	Stainless Steel SC/APC Polishing Puck
927-1020	SMA 905	Amphenol	Stainless Steel SMA 905 Polishing Puck
927-100-2008	SMA 906	Amphenol	Stainless Steel SMA 906 Polishing Puck
106710-1000	ST	Molex	Stainless Steel ST Polishing Puck
Military			
FSPP-132-00-001	M29504/14/15	AFSI	M29504/14/15 Polishing Puck for 2.0mm Pins and Sockets
0701-4100	M29504/14/15	Kitco	M29504/14/15 Polishing Puck for 2.0mm Pins and Sockets
0721-1530	M29504/4/5	Kitco	M29504/4/5 Polishing Puck for 1.6mm Pins and Sockets
182-001P	M29504/4	Glenair	M29504/4 Polishing Puck for 1.6mm Pins
182-001S	M29504/5	Glenair	M29504/5 Polishing Puck for 1.6mm Sockets

Specifications may change without notice

Safety Kit



Miller

FS9500 Fiber-Safe Safety Kit

Miller, the leader in Fiberoptic/Telecom tools, has developed a Fiber-Safe™ safety kit specifically for working safely with glass fiber. Its contents include a Fiber-Safe polishing /work mat, fiber scraps trash can, splinter removal tweezer, ten bifurcated cleaning swipes, each with a self-contained alcohol dispensing tube, and safety glasses. Each kit is provided in a see-through merchandising tube with a hang tab for display board or rack.

Polishing/Work Mat

The vinyl 35.5cm x 56cm (14" x 22") black work mat serves a dual purpose. Its primary function is to allow you to easily see the fiber scraps instead of trying to find them on a lighter colored work surface. It can also serve as a sub-surface for some polishing applications. Instead of using a hard, non-giving surface, you have a resilient mat that depresses easily and allows you to quickly pick up the fibers you are working on.

Fiber Scraps Trash Can

The disposable fiber scraps trash can gives you the safest method of disposing of glass fiber scraps because it can be incinerated when full.

Splinter Removal Tweezer

The splinter removal tweezer's teflon coating provides the cushioning you need to remove glass fiber splinters without shattering or breaking the glass.

Bifurcated Cleaning Swipes

You will appreciate the bifurcated (two-pronged) swipes that put an end to working with messy bottles of alcohol and hand wipes to clean fiber ends before splicing, cleaving or terminating fiber. The tube contains 99% isopropyl alcohol. Hand pressure breaks the seal, and the alcohol is dispensed only when you squeeze the tube, reducing evaporation and alcohol waste.

Safety Glasses

The safety glasses, which should always be worn when working with fiber, complete the kit. They have a single lens wrap-around feature to provide additional safety, the latest technology in safety glasses.

Ordering Information

Part Number	Description
FS100	Fiber-Safe 14 x 22 inch Work Mat
FS200	Fiber-Safe Disposable Fiber Scraps Trash Can
FS300	Fiber-Safe Wrap-around Safety Glasses
FS400	Fiber-Safe Pre-moistened Bifurcated Alcohol Swabs
FS500	Fiber-Safe Teflon Coated Fiber Splinter Removal Tweezers
FS9500	Fiber-Safe Kit Contains Workmat, Fiber Scraps Trash Can, Safety Glasses, Bifurcated Swabs and Tweezers.

Working Supplies



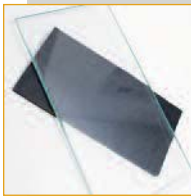
Miller

Softy Series Anti-Static Disposable Work Mats

- Cushioned surface protects delicate assemblies and expensive work surfaces
- Make small parts handling easier and quicker
- Inexpensive and Disposable
- Anti-static and free from contamination
- Meets DOCF1-70 test for flammability
- Depress easily to give tools a sure grip on parts
- Backing is non-slip, even on smooth glass
- Clean with soap and water without affecting anti-static quality
- Surface resistivity 10¹⁰ - 10¹¹ ohms/sq
- Meets DOD-STD-1686 for anti-static material

Ordering Information

Part #	Description	Part #	Description	Part #	Description
FS100	22" x 14" Mat - Black	M14	22" x 14" Mat - White	M11	11" x 14" Mat - White
R22	22" x 180' Roll - White	R44	44" x 180' Roll - White		



Rubber Pads & Glass Plates

Fiber Optic Center offers rubber pads and glass plates in a variety of sizes, but the sizes below are recommended for hand polishing applications as they work well with our 3x6" film. Please contact us for polishing procedures and/or technical assistance.

Ordering Information

Part Number	Description
RUBBER-PAD-4x6"	4x6" Rubber Pad, Buna N 70 Durometer
GP-4X8	4X8" Glass Polishing Plate with polished edge



ÅNGSTRÖM Spray - Water Spritzers

While polishing, it is sometimes helpful to use a small amount of water to hold the film to the polishing surface and many procedures also recommend the film surface have a small amount of water as well. In both cases, it is critical that the water be dispersed in a very light and even manner, not allowing it to pool. The Ångström Spray water spritzer creates a fine mist of water, perfect for polishing applications.

Ordering Information

Part Number	Description	Part Number	Description
AS8	AngstromSpray 8oz. Spritzer Bottle	AS16	AngstromSpray 16oz. Spritzer Bottle



Cleaning / Piano Wire

Piano wire is used to clean ferrule holes of broken fiber, uncured epoxy and other debris that may collect during the termination process.

Ordering Information

Part Number	Description
PW-12	Piano Wires, 12 Per Vial

Working Supplies



Miller

Tweezers

AA-SA - Strong, fine tips. General purpose tweezer popular for assembly line work. Anti-acid/Anti-magnetic stainless steel. Brushed satin finish.

4SA - Extra fine tips. Excellent for dense access areas in micro-assembly work. Anti-acid/Anti-magnetic stainless steel. Brushed satin finish.

4C - Extra fine tips. Excellent for dense access areas in micro-assembly work. Chrome-plated carbon steel.

5SA - Needle sharp tips. Excellent for die attaching, wire bonding, and handling miniature parts. Anti-acid/Anti-magnetic stainless steel. Brushed satin finish.

7SA - Extra fine curved tips for working on miniature assemblies. Curved tips allow hand to rest on work surface for support, which means greater accuracy with less fatigue. Anti-acid/Anti-magnetic stainless steel. Brushed satin finish.

7C - Extra fine curved tips for working on miniature assemblies. Curved tips allow hand to rest on work surface for support, which means greater accuracy with less fatigue. Chrome-plated carbon steel.

231 - General purpose assembly tweezer with serrated inside points. Anti-acid/Anti-magnetic stainless steel. Brushed satin finish.

226 - General purpose assembly tweezer with serrated inside points. Chrome-plated carbon steel.

FS500 - A splinter removal tweezer with a Teflon coating to provide the cushioning needed to remove glass fiber splinters without shattering or breaking the glass.

Ordering Information

Part Number	Description
AA-SA	Anti-acid/Anti-magnetic Stainless Steel Fiber Tweezers, (4-7/8")
4SA	Stainless Steel Fiber Tweezers. (4-1/4")
4C	Chrome Plated Carbon Steel Fiber Tweezers. (4-1/4")
5SA	Stainless Steel Needle Tip Fiber Tweezers. (4 1/4")
7SA	Stainless Steel Curved Tip Fiber Tweezers. (4-1/2")
7C	Chrome Plated Carbon Steel Fiber Tweezers. (4-1/2")
231	General Purpose Anti-acid/Anti-magnetic Stainless Steel Fiber Tweezers. (4-3/4")
226	General Purpose Chrome Plated Carbon Steel Fiber Tweezers. (4-3/4")
FS500	Fiber Splinter Removal Tweezers with a Teflon Coating. (4-1/4")



Magnifying Loupe

Ordering Information

Part Number	Description
119-599	Bausch & Lomb 10X Magnifying Loupe



23 Centre Street New Bedford, MA USA 02740-6322
Toll Free: 800-IS-FIBER / Tel: 508-992-6464 / Fax: 508-991-8876
e-mail : sales@focenter.com
www.focenter.com

Micro Enterprises Inspection Systems



ME8800

Optispec In Fixture Inspection System

The Optispec ME8800 series of video microscopes were designed to speed up inspection of fiber optic connectors. By allowing an operator to inspect connectors while mounted in a polishing fixture, the ME8800 decreases inspection time and makes it possible to quickly re-polish any damaged connectors. This is accomplished by simply removing the polishing fixture from the polisher, placing the fixture into the insert on the ME8800 stage, and rotating the insert to quickly inspect each connector. Both X and Y access controls are provided to scan the multi fiber connectors.

The stage design and fixture inserts accommodate all of the standard connectors including the entire MT series of multi-fiber connectors and arrays. With its ease of operation, the Optispec ME8800 will drastically reduce inspection time.

Features & Benefits

- Inspect connectors directly from the polishing fixture
- All Models are equipped with 5x, 10x, and 20x objectives
- High Resolution video and CCD camera
- Adjustable Fiber Optic Light Source
- Stage included X-Y axis centering
- Available in NTSC and PAL formats
- Several inserts available for different polishing fixtures
- A variety of options and custom configurations available

Technical Specifications

LWD Objective	5x	10x	20x	40x (optional)
Optical Magnification	50x	100x	200x	400x
Approximate Optical Resolution (um)	2.0 - 3.0	0.8 - 1.0	0.6 - 0.7	0.45 - 0.5

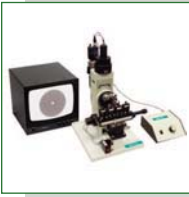
Ordering Information

Part Number	Description
ME8800	Optispec® Benchtop Inspection System with 100x, 200x, and 400x approximate video magnifications and 5x, 10x and 20x objectives. Includes high resolution CCD camera, 12" video monitor and Standard 12 Position Stage Adapter for Seikoh Giken 510 and Domaille with Detent Spring (MP8134).

Polishing Fixture Inserts

MP8166	6 Position MT-RJ (flat & angled) works with Domaille fixtures
MP8153	10 Position MT (flat & angled) works with Domaille fixtures
MP8182	12 Position MT works with Domaille MT EZ fixtures
MP8180	12 Position Cam-Loc works with Domaille Cam-Loc fixtures
MP8134	12 Position with Detent Spring works with Domaille and Seikoh Giken 510 fixtures
MP8121	12 Position without Detent Spring works with Domaille and Seikoh Giken 510 fixtures
MP8111	12 Position without Detent Spring works with Seikoh Giken 520 fixtures
MP8088	Adapter plate works with all Seikoh Giken 550 fixtures

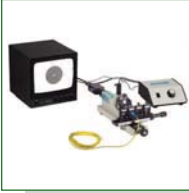
Micro Enterprises Inspection Systems



ME3200

Optispec Bench-Top Inspection System

ME3200 video microscope system, represents the high end of the Optispec line of fiber optic connector inspection microscopes. Featuring our most powerful illumination and highest magnification, it is considered a valuable tool in production departments and engineering labs. Equipped with a high-resolution CCD camera, four objectives, precision coarse/line focus controls, and a 150W fiber optic light source, the ME3200 includes up to four connector adapters of the user's choice. These adjustable adapters are mounted to a manual drive linear stage with a quick release latch for easy positioning. The powerful light is optimized with field and aperture diaphragms for maximum resolution and image quality.



ME2500

Optispec Bench-Top Inspection System

The Optispec ME2500 is a highly versatile video microscope ideal for large and small fiber optic cable assembly companies. Equipped with a high resolution CCD camera and high quality optics, the ME2500 produces a detailed image of the end face allowing the operator to quickly spot scratches and other defects. Light scratch detection is further enhanced by the recent addition of a near UV LED light source. All three models accommodate standard connectors including multi-fiber connectors. Custom stage configurations are also available to meet special requirements in the production requirements in the production area.



ME2800

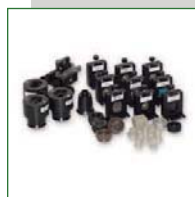
Optispec Low-Mag Bench-Top Inspection System

The Optispec ME2800 is a highly versatile video microscope ideal for large and small fiber optic cable assembly companies. Equipped with a high resolution CCD camera and high quality optics, the ME2800 produces a detailed image of the end face allowing the operator to quickly spot dirt and other defects. All models accommodate standard connectors including multi-fiber connectors. Custom stage configurations are also available to meet special requirements in the production area.

Ordering Information

Part Number	Description
ME3200	Optispec Benchtop Inspection System with 100x, 200x, 400x and 800x approximate video magnifications with 5x, 10x, 20x and 40x objectives. Includes high resolution CCD camera, linear slide to accept up to 4 connector types and any 4 of the standard adapters. (Requires a monitor)
ME2502	Optispec Benchtop Inspection System with 100x, 200x, and 400x approximate video magnifications and 5x, 10x and 20x objectives. Includes high resolution CCD camera and XY position stage with 2.5mm universal adapter. (Requires a monitor)
ME2502/APC	Optispec Benchtop Inspection System with 100x, 200x, and 400x approximate video magnifications and 5x, 10x and 20x objectives. Includes high resolution CCD camera and XY pivot stage with 2.5mm Universal Adapter to allow for PC and APC connectors. (Requires a monitor)
ME2503	Optispec Benchtop Inspection System with 100x, 200x, and 400x approximate video magnifications and 5x, 10x and 20x objectives. Includes high resolution CCD camera, linear slide to accept up to 4 connector types and 4 adapters to be specified at time of order. (Requires a monitor)
ME2510-B	Optispec Benchtop Inspection System with 100x, 200x, and 400x approximate video magnifications and 5x, 10x and 20x objectives. Includes high resolution CCD camera and fiber gripper on a fully adjustable stage with X,Y,Z and tilt controls for viewing bare fiber. (Requires a monitor)
ME2802	Optispec Bench Fiber Microscope. 27x - 192x approximate video magnifications. Includes high resolution CCD camera and XY position stage. (Requires an adapter and monitor)
ME2803	Optispec Bench Fiber Microscope. 27x - 192x approximate video magnifications. Includes high resolution CCD camera, linear slide to accept up to 4 connector types and 4 adapters to be specified at time of order. (Requires a monitor)

Micro Enterprises Inspection Systems



XY Position Stage Adapters

ME2502, ME2502APC, ME2802

Micro Enterprises Inc. are constantly developing new products for our microscopes and some adapters may not be listed. Please contact us if a specific adapter is not listed below.

- Composite Plastic = wear resistant machined plastic
- Stainless Steel = improved wear resistance, machined steel
- Hardened Steel = best wear resistance, EDM'ed stainless steel

2.5mm Connectors

MP2555	2.5mm Univ for SC/FC/ST, stainless steel	MP2555-2	2.5mm Univ for SC/FC/ST, composite plastic
MP2569	2.5mm Thru Universal Adapter (view entire ferrule), stainless steel		

1.25mm Small Form Factor Connectors

MP2570-2	1.25mm Adapter for LC/MU, stainless steel	MP2570	1.25mm Adapter for LC/MU, composite plastic
MP2449	Keyed LC, hardened steel	MP2478	Keyed LC, composite plastic

Multiple Fiber Connectors

MP2565	MT Ferrule, composite plastic	MP2568	MT APC Ferrule, composite plastic
MP2566	MTP/MPO, composite plastic	MP2564	MPX, composite plastic
MP2557	Mini MT, composite plastic	MP2597	MT-RJ, composite plastic

Other Connectors

MP2556	D4 Adapter, stainless steel	MP2558	Biconic Adapter, alloy
MP2567	SMA Adapter, stainless steel		

Section continued on next page

Specifications may change without notice

Micro Enterprises Inspection Systems



Linear Slide Adapters

ME2503, ME2803, ME3200

NOTE: adapters for these models are commonly referred to as "BRACKETS". Included with each bracket are specific "INSERTS" which mate to the fiber optic connector. Replacement inserts are available for most brackets, but some are available only as a fully assembled bracket. Please double check the part number and confirm at the time of ordering whether an insert or complete bracket is needed.

2.5mm Connectors

MP2585	2.5mm Universal Bracket for SC/FC/ST/, stainless steel*		
MP2496	2.5mm Thru Bracket (view entire ferrule), stainless steel*		
MP2585-2	2.5mm Universal Bracket for SC/FC/ST/, composite plastic*		
MP2455	2.5/1.25mm Combo Bracket for SC/FC/ST/LC/MU, composite plastic*		
MP2722	2.5mm "V" Block assembly, (for ME3200 only)*		
MP2560	SC Keyed Bracket, alloy*	MP2494	SC Duplex Bracket, composite plastic
MP2561	FC Keyed Bracket, alloy*	MP2579	E2000 Bracket, composite plastic*
MP3267	FC Keyed Special Bracket, (2mm Key for ME3200 only)*		

1.25mm Small Form Factor Connectors

MP2586	1.25mm Bracket for LC/MU, composite plastic*	MP2586-2	1.25mm Bracket for LC/MU, stainless steel*
MP2499	1.25mm Bracket for LC/MU, hardened steel*		
MP2573	LC Keyed Bracket, hardened steel*	MP2495	LC Duplex, composite plastic
MP3260	8-position BLC (specify UPC or APC), composite plastic		
MP2455	2.5/1.25mm Combo Bracket for SC/FC/ST/LC/MU, composite plastic*		

Multiple Fiber Connectors

MP2581	MT Ferrule Bracket, composite plastic	MP2452	MT Ferrule Bracket, hardened steel
MP2583	MT APC Ferrule Bracket, composite plastic	MP2453	MT APC Ferrule Bracket, hardened steel
MP2583	Mini MT Ferrule Bracket, composite plastic	MP2450	Mini MT Ferrule Bracket, hardened steel
MP2594	Mini MT APC Ferrule Bracket, composite plastic	MP2451	Mini MT APC Ferrule Bracket, hardened steel
MP2590	MTP/MPO Bracket, composite plastic	MP2591	MTP/MPO APC Bracket, composite plastic
MP2582	MPX Bracket, composite plastic	MP2592	MPX APC Bracket, composite plastic
MP2584	MT-RJ Bracket, composite plastic	MP2595	MT-RJ APC Bracket, composite plastic
MP2448	SMC Bracket, composite plastic		

Other Connectors

MP2436	Bare Fiber Bracket (requires MP32046 Fiber Chuck)	MP2599	Biconic Bracket, alloy
MP2598	D4 Bracket, stainless steel	MP2497	D4 Bracket, composite plastic
MP2579	E-2000 Bracket, composite plastic	MP2580	SMA 905/906 Bracket, stainless steel
MP2439	1.6mm Bracket for Mil. Spec./29504-4&5/Bendix Pin, composite plastic		
MP2550	1.8mm Bracket, composite plastic		

* For APC connectors simply angle the bracket on the microscope stage 8 degrees

Westover Inspection Systems



FV & FVW Series

Modular Workstations

All FV series scopes are bench-top video microscopes designed for inspecting patch cords and ferrules just after polishing. These systems include a valuable feature not found anywhere else in the industry. When depressed, the ScratchView button implements a specialized contrast enhancement algorithm over the surface of the glass fiber. This filter makes fine defects readily detectable and dramatically reduces the need for extensive training of technicians. Using this feature can help cut down on disputes between vendors and customers as both sides will see every defect.

The FVW series is our modular system, where the video microscope is separate from the monitor. This allows the user to place the monitor on a shelf while the scope is on the bench. It also helps us keep the cost of the system down, and enables the user to choose their own monitor if they prefer. The FV- prefix items include the microscope, power supply, video cable, and universal 2.5mm adapter. The FVW- prefix items include all of the FV-contents in addition to a monitor of specified size.

Ordering Information

Magnification	No Monitor	9" Monitor	12" Monitor
80x	FV-080	--	--
200x	FV-200	FVW-209	FVW-212
400x	FV-400	FVW-409	FVW-412
400x LWD	FV-400-L	--	--

* 2.5mm adapter cap included with all



FVD Series

Digital Workstations

The FVD series is optically similar to the FV series but uses a high resolution digital camera over which the software maintains low level control. Each scope includes a capture button on the top of the unit. Using a USB 2.0 port, the live image is seen on the computer monitor. Once focused, a single click triggers a series of subsequent actions resulting in a complete analysis of the fiber end face and a pass/fail result.

Upon triggering the Quick Capture button, the system uses the large format digital sensor to search a wide area to find the glass fiber. Once found, it captures a resolution image over a smaller area that is centered exactly on the fiber. The low magnification image is analyzed separately from the high magnification image to provide exacting examination on, and near, the glass fiber but still evaluating a wider area for larger debris and damage. These are stitched together and compared to pass/fail criteria to provide a non-subjective grading of the image. All of this happens in less than a second.

Ordering Information

Part Number	No Monitor
80x	FVD-2080
200x	FVD-2200
400x	FVD-2400
400x LWD	FVD-2400-L

* 2.5mm adapter cap included with all

Westover Inspection Systems



FVIW Series

Integrated Workstations

The FVIW series are our integrated workstations. These units feature a microscope base attached below the monitor. This integration saves space on the table and eliminates cumbersome cables.

Ordering Information

Magnification	9" Monitor	12" Monitor
200x	FVIW-209	FVIW-212
400x	FVIW-409	FVIW-412
400x LWD	FVIW-409-L	FVIW-412-L

* 2.5mm adapter included with all



FVDW Series

Dual Workstations

The FVDW series are our dual integrated workstations. These units feature a microscope base attached below the monitor. This integration saves space on the table and eliminates cumbersome cables. In the base, we incorporate two patch cord microscopes with an A/B switch to select which image is displayed on the monitor. These units are popular for a number of reasons. Some users prefer dual workstations because it allows them to insert one type of adapter on the left side and a different one on the right side (ie: Universal 1.25 vs. Universal 2.5, MTP vs. SC, etc.). This reduces the time to inspect as you do not have to change adapters frequently.

Other users prefer dual workstations because they can choose a 200x system on the left and a 400x system on the right. This allows for precision inspection of the glass followed by a wide field inspection of the contact zone.

Ordering Information (9" monitors only)

Mag A / Mag B	200x	400x	400x LWD
80x	FVDW-1209	FVDW-1409	--
200x	FVDW-2209	FVDW-2409	FVDW-2409-L
400x	--	FVDW-4409	--
400x LWD	--	--	FVDW-4409-L2

* Adapter caps not included and must be purchased separately



FVCW Series

Combination Workstations

The FVCW series are our combination workstations. These units feature a microscope base integrated below the monitor. The base includes an FV style patch cord microscope, an input for a probe scope, an A/B switch to change between the two scopes, and a holder into which the probe can be stored. In assembly environments there is quite often the need to first inspect the patch cord, then inspect a connector that is already installed within a mating adapter. This system is the classic male/female inspection solution for a factory environments and has been chosen widely since its inception. Some models are sold with a probe, while others do not include a probe so you can purchase separately.

Ordering Information

Magnification	9" Monitor	9" Monitor w/ 200x Probe
200x	FVCW-2X09	FVCW-2209
400x	FVCW-4X09	--

* 2.5mm adapter cap included with all

** 2.5mm, FC, SC and ST tips also included with the FVCW-2209

Westover Inspection Systems



FMA Series Adapter Caps

Ordering Information

Part Number	Description	Part Number	Description
Single Fiber Connectors			
FMA-U25	2.5mm Universal	FMA-U25-P	2.5mm Universal (Pro Version)
FMA-UAPC	2.5mm Universal, APC	FMA-UAPC-P	2.5mm Universal, APC (Pro Version)
FMA-U12	1.25mm Universal	FMA-U12-P	1.25mm Universal (Pro Version)
FMA-UA12-P	1.25mm Universal, APC (Pro Version)	FMA-U381	3.81mm Universal
FMA-BIC	Biconic	FMA-COD	Corning OptiTap
FMA-D4	D4	FMA-E2A	E2000, for PC & APC
FMA-FCPC	FC	FMA-FC-APC	FC-APC
FMA-LC	LC	FMA-LC-APC	LC-APC
FMA-LC-2X	LC Duplex	FMA-MU	MU
FMA-SC	SC	FMA-SC-APC	SC-APC
FMA-SMA	SMA	FMA-ST	ST
FMA-BF1	Bare Fiber (125um Fiber)	FMA-LEMO1	LEMO F2 Termini
FMA-MIL1	Mil 29504/14/15 Termini	FMA-MIL2	Mil 29504/4/5 Termini
Multi-Fiber Connectors			
FMA-MTRJ-1	MTRJ, Simple Type	FMA-MTRJ-2	MTRJ, X-Y Axis Pan/Scroll
FMA-MT	MT, X-Y Axis Pan/Scroll	FMA-MTA	MT-APC, X-Y Axis Pan/Scroll
FMA-MTP	MTP, X-Y Axis Pan/Scroll	FMA-MTPA	MTP-APC, X-Y Axis Pan/Scroll
FMA-MPX	MPX, X-Y Axis Pan/Scroll	FMA-MPXA	MPX-APC, X-Y Axis Pan/Scroll
FMA-MMT-2	Mini-MT Ferrule, X-Y Axis Pan/Scroll		

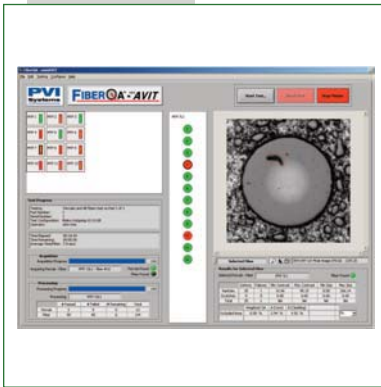


Video Monitors

Ordering Information

Part Number	Description	Part Number	Description
VM-9BW	9" Black & White, NTSC	VM-12BW	12" Black & White, NTSC
VM-13C	13" Color, NTSC	VM-20C	20" Color, NTSC
VM-27C	27" Color, NTSC	VM-LCD-64	6.4", Color, LCD

PVI Automated Scratch Analysis



FiberQA-EFI

Endface Inspection Software

The FiberQA-EFI software features quantitative defect detection and classifications as scratches; chips, particles, pits and blemishes; and the epoxy ring. The software package is available for both analog and digital inspection scopes with the analog version requiring a proprietary video card included with the software and the digital version requiring a standard USB port only. The digital version is currently only set up to work with the Westover FVD-2400 but it can be modified to work with most other digital scopes upon request.

The software has predefined industry standard test parameters, such as IPC 8497-1 and enables customers to implement company-specific testing parameters. Pass/fail statistics and detailed defect and failure properties (such as size, location, occluded area, and contrast of each scratch and particle) are stored in an SQL-compliant database. Intuitive review using defect overlay on the image using the stored images and results.



FiberQA miniAVIT

In Fixture Endface Inspection System

A fully Automated Visual Inspection Tool, the miniAVIT automatically locates, images, and inspects the surfaces of fiber end faces to detect scratches, pits, chips, cracks, loose contamination, and other defects.

Optimized for post-polishing, in-process, and final inspection stages of manufacturing, the miniAVIT provides highly reliable, consistent fiber inspection, user flexibility in test specifications with detailed, auditable documentation of results.

The miniAVIT inspects all the fibers without removing them from the polishing plate, significantly reducing labor time to inspect, re-polish and rework any fibers that fail the inspection criteria. For final inspection, custom fixtures may be fitted to the system for testing multiple connectors or small assemblies.

By automatically and precisely inspecting each fiber end face, the miniAVIT enables companies to efficiently ensure the quality of each fiber in all of their products using less labor.

Ordering Information

Part Number	Description
FiberQA-EFI Software - Analog	
FIBERQA	Analog Inspection Software & Frame Grabber
FIBERQA-C	Analog Inspection Software & Frame Grabber Pre-installed in a Computer w/ a Flat Panel Monitor
FiberQA-EFI Software - Digital	
FIBERQA-USB	USB Compatible Inspection Software
FIBERQA-USB-C	USB Compatible Inspection Software Pre-installed in a Computer w/ a Flat Panel Monitor
FIBERQA-USB-L	USB Compatible Inspection Software Pre-installed in a Laptop Computer
FiberQA miniAVIT Automated End Face Inspection Systems	
MINI-AVIT-MT	In-plate inspection system for Multifiber MTs or single fiber ceramic connectors. Includes Inspection System, Inspection Software & PC w/ Flat Panel Monitor. Requires polishing plate adapter.
MINI-AVIT-CERAM	In-plate inspection system with a wider field of view for Single fiber ceramic connector only. Includes Inspection System, Inspection Software & PC w/ Flat Panel Monitor. Requires polishing plate adapter.
SG550-MINI-AVIT	Seikoh Giken SFP-550 Plate Adapter
DOM-MINI-AVIT	Domaille Plate Adapter

KD Optics Return/Loss Systems



KDX1000

Modular Test System

The KD Optics KDX1000 modular test system is intended for use both as a laboratory instrument and for use as production test equipment. The unit features a mainframe with power meter controller with capacity for multimode, single mode and visible light sources. When used as a production test system, the test software allows full automation, giving the operator a totally hands-free test environment, with the test sequence and results stored in an Access database.

Available options include LED or laser, single or dual, cooled or uncooled along with Insertion loss and return loss measurements.

Features & Benefits

- Modular test system
- Single or dual sources
- Multimode and Single mode options
- High Repeatability
- Insertion loss and return loss
- Several software options allow automated testing
- Laboratory or Production environment
- Results stored in Access database
- Speeds up testing time
- Cooled 635nm Visible option

Technical Specifications

Output Level	-20 dBm LED / -3 dBm Laser
Stability	+/- 0.05 dB / Hour at 23° C
Spectral FWHM	Typical 50nm Multimode / 3nm Single Mode
Measurement Range	+10 to -70 dBm
Measurement Accuracy	+/- 5% at 23° C
Resolution	0.01 dB

Ordering Information

Part Number	Description	Part Number	Description
KDX1000	Power Meter including Mainframe		
Light Sources			
KDX0850	850nm LED	KDX1300	1300nm LED
KDX8513	850nm/1300nm LED	KDX0635	635nm Visible Laser - Cooled
KDX1310	1310nm Laser	KDX1310C	1310nm Laser - Cooled
KDX1550	1550nm Laser	KDX1550C	1550nm Laser - Cooled
KDX1315	1310/1550nm Laser	KDX1315C	1310/1550nm Laser - Cooled
Light Sources with Return Loss Meter			
KDX8513R	850/1310nm LED	KDX1315R	1310/1550nm Laser
Automated Test Software			
KDXALTSM	Multimode	KDXALTSS	Single Mode
KDXALTSL	Logging		

JGR Services Return/Loss Systems



BR5 Series

Single Output Backreflection Meter

The BR5 Backreflection Meter is a user-friendly instrument developed with extremely stable optics for precise measurement of backreflection, insertion loss and power. The BR5 features up to four built-in laser sources at wavelengths of 850, 1310, 1490, 1550 and 1625 nm (depending on fiber type).

An intuitive display and keypad, with one-button access to BR and IL modes, simplifies the collection and management of measurement data. Available in single-mode and multimode, the BR5 is ideal for measurements of connectors, components and systems.

The BR5 achieves ultra-stable backreflection measurements at very low values. Accuracy is typically ± 0.4 dB and measurement sensitivity is to -80 dB. Insertion loss relative accuracy is ± 0.05 dB.



MBR5 Series

Multi-Output Backreflection Meter

The MBR5 Multi-Output Backreflection Meter is an instrument developed with extremely stable optics for precise measurement of backreflection, insertion loss and power. Available with 4, 12, 24, or 48 output channels, the MBR5 is a practical choice for both single fiber and ribbon fiber testing. The MBR5 features up to four built-in laser sources at wavelengths of 850, 1310, 1490, 1550 and 1625 nm (depending on fiber type), and can be configured for single mode or multimode measurement.

An intuitive display and keypad simplifies the collection and management of measurement data allowing quick access to the test results from various channels. The MBR5 achieves ultra-stable backreflection measurements at very low values. Accuracy is typically ± 0.4 dB and measurement sensitivity is to -80 dB. Insertion loss relative accuracy is ± 0.05 dB. In addition, the 10 mm Ge detector option is particularly useful for ribbon connectors with large fiber counts.

Technical Specifications

Backreflection Range	0 to -60 dB Multimode / 0 to -80 dB Single Mode
Backreflection Accuracy	± 0.4 dB (add 0.1 dB to the spec for every 1 dB below -60 dB)
Power Range	0 to -80 dBm (InGaAs) / 0 to -60 dBm (Ge)
Absolute Power Accuracy	± 0.25 dB (measured at -10 dBm)
Relative Power Accuracy	± 0.15 dB Multimode / ± 0.05 dB (< 5 dB Loss) & ± 0.15 dB (> 5 dB Loss)

JGR Services Return/Loss Systems

Ordering Information

Wavelength (nm)	BR5 - InGaAs	BR5 - Ge	MBR5 - 4 Channel
Single Mode			
1310	BR53000209FA	BR53000509FA	MBR5043000209FA
1550	BR50050209FA	BR50050509FA	MBR5040050209FA
1310/1550	BR53050209FA	BR53050509FA	MBR5043050209FA
1550/1625	BR50056209FA	BR50056509FA	MBR5040056209FA
1310/1550/1625	BR53056209FA	BR53056509FA	MBR5043056209FA
1310/1490/1550	BR53450209FA	BR53056509FA	MBR5043450209FA
1310/1490/1550/1625	BR53456209FA	BR53456509FA	MBR5043456209FA
Multimode (850 / 1300)			
50/125um	NA	BR58300550FA	MBR5048300550FA
62.5/125um	NA	BR58300550FA	MBR5048300562FA
Wavelength (nm)	MBR5 - 12 Channel	MBR5 - 24 Channel	MBR5 - 48 Channel
Single Mode			
1310	MBR5123000509FA	MBR5243000109FA	MBR5483000109FA
1550	MBR5120050509FA	MBR5240050109FA	MBR5480050109FA
1310/1550	MBR5123050509FA	MBR5243050109FA	MBR5483050109FA
1550/1625	MBR5120056509FA	MBR5240056109FA	MBR5480056109FA
1310/1550/1625	MBR5123056509FA	MBR5243056109FA	MBR5483056109FA
1310/1490/1550	MBR5123450509FA	MBR5243450109FA	MBR5483450109FA
1310/1490/1550/1625	MBR5123456509FA	MBR5243456109FA	MBR5483456109FA
Multimode (850 / 1300)			
50/125um	MBR5128300550FA	MBR5248300150FA	MBR5488300150FA
62.5/125um	MBR5128300562FA	MBR5248300162FA	MBR5488300162FA

Adapter Caps

Connector	2-5mm Detector	10mm Detector
2.5mm	DA116	DA216
2.0mm	DA124	--
1.25mm	DA1418	DA2418
FC	DA101	DA201
SC	DA103	DA203
LC	DA118	--
MU	DA114	--
SMA	DA109	--
E2000	DA115	--
12 Fiber Holder	DA113+DA120	--
MTP/MPO	DA117	DA217
MPX	DA122	DA222
MT	DA112	DA212
MTRJ	DA119	DA219
Mother Board MT	DA123	DA223

TEST & INSPECTION

JGR Services Optical Switches



SX4 Series Optical Switches

The SX4 switch chassis contains one common input with multiple output channels controlled via keypad or remote interface (GPIO or RS232).

The user-friendly front panel keypad and interface simplifies the selection and confirmation of the output channel.

A variety of configuration options offer additional flexibility. The front panel bulkheads may be fit with typical FC/UPC, FC/APC, SC/UPC, or SC/APC connector types.

Technical Specifications

Fiber Type	Single Mode
Wavelength Range	1280nm - 1660nm
Insertion Loss	0.7 dB
Return Loss	> 60 dB
Polarization Dependent Loss	0.02 dB
Stability	+/- 0.03 dB
Repeatability	0.02 dB
Crosstalk (maximum)	- 80 dB
Maximum input Power (optical)	300 mW
Switching time	10 ms
Power Supply	100 VA maximum
Control	Front Panel/GPIO/RS232

Ordering Information

Connector	2 Channel	4 Channel
FC/UPC	SX40209FP	SX40409FP
FC/APC	SX40209FA	SX40409FA
SC/UPC	SX40209SP	SX40409SP
SC/APC	SX40209SA	SX40409SA

DORC Interferometers



Direct Optical Research (DORC)

ZXPMS+ & ZXMARRAY+ Bench-Top Interferometers

Direct Optical Research Company specializes in the design and manufacturing of non-contact interferometers for the optical fiber and connector industry. DORC's range of ZX-1 Interferometers and Phase Measuring System (PMS) software has been specifically designed to meet the ever-increasing need for accurate, automated, high volume testing of ferrules, ferrule blanks, connector assemblies, pigtails, patchcords, array connectors and optical fiber cleaves.

Easy to Use

Auto-Focus - Extremely easy to use, the operator simply inserts the connector under test into the chuck and initiates the measurement - no centering or focusing is required. The system will then automatically center and focus, perform all the necessary calculations and give a pass/fail analysis in a less than a second for simplex connectors and approximately 16 seconds per section for multi-fiber connectors.

Zero Downtime

Computer Independence - DORC interferometers have a built-in hard drive. Calibrations, operator settings and measurements are all backed up internally so if the computer you are using happens to fail, you can simply replace it with another computer. This allows you to be up and running in minutes while other systems require a complete factory recalibration.

ZXPMS+

Single Fiber Interferometer

Designed to work with single fiber connectors only, the ZXPMS+ performs fast and repeatable measurements on radius of curvature, apex offset and undercut/protrusion. It also captures a clear image of the tip of the ferrule to give the operator the ability to make a visual scratch analysis at the same time. The "with tilt" feature on the connector chucks allow the unit to be used with APC connectors with the addition of an appropriate adapter plate. System is standard with a laptop computer but can be supplied with a desktop upon request.

ZXMARRAY+

Single & Multifiber Interferometer

DORC's latest version of their multifiber interferometer is now capable of measuring BOTH multifiber and single fiber connectors. Because the endface of a multifiber connector covers a much larger area, the ZXMARRAY+ uses a camera with a much wider field of view. But even with this wider field of the view, the multifiber system is still capable of performing the same fast and repeatable measurements on single fiber connectors. However, the image captured shows almost the entire endface of the ferrule so a visual scratch analysis would not be recommended using this system as it is using the single fiber system. System is standard with a laptop computer but can be supplied with a desktop upon request.

Self Calibrating - The ZXMARRAY+ has a built-in, automatic apex offset calibration system for MT connectors. Before every measurement, the system calibrates itself to ensure absolute accuracy. Other systems require periodic, manual adjustments which leads to down time and the potential for mis-information.

Section continued on next page

Specifications may change without notice

INTERFEROMETERS / E-1

DORC Interferometers

Ordering Information

Part #	Description
ZXMARRAY+	DORC ZXM-ARRAY Plus Multifiber Interferometer. Includes Laptop PC (Desktop Optional, if specified on PO) and MT or MT-RJ connector chuck to be specified at time of order.
ZXPMSPLUS	DORC ZX-1 Mini PMS PLUS Zoom Interferometer. Includes Laptop PC (Desktop Optional, if specified on PO). Requires connector chuck for operation.

Accessories

Part #	Description	Part #	Description
Multifiber Connector Chucks - ZXMARRAY ONLY			
MT CHUCK	MT/MT-APC Chuck including adapters for connectors with & without housings and integrated guide pins		
MTRJ CHUCK	MT-RJ Chuck including adapters for connectors with & without housings and integrated guide pins		
Single Fiber Connector Chucks			
2.5-WT	Universal 2.5mm with tilt	1.25-WT	Universal 1.25mm with tilt
2.0-WT	Universal 2.0mm with tilt	3.0-WT	Universal 3.0mm with tilt
BFH-WT	Bare fiber holder (125um) with tilt		
"Mapped" Reference Connectors (For use with 1H and 1L chucks)			
REF2.5 MAN	2.5mm for Manual Systems	REF1.25 MAN	1.25mm for Manual Systems
REF2.5 PMS	2.5mm for PMS Systems	REF1.25 PMS	1.25mm for PMS Systems
REF1.25 APC	1.25mm LC/APC for PMS Systems. Includes MATCHING 2A adapter plate.	REF2.5 APC	2.5mm SC/APC for PMS Systems. Includes MATCHING 2A adapter plate.
Adapter Plates (For use with APC connectors)			
FC/APC AP	FC/APC connector adapter plate	LC/APC AP	LC/APC connector adapter plate
ST/APC AP	ST/APC connector adapter plate	MU/APC AP	MU/APC connector adapter plate
SC/APC AP	SC/APC connector adapter plate	BSC/APC AP	BSC connector adapter plate
DIN/APC AP	DIN/APC connector adapter plate	FER/APC AP	APC ferrule adapter plate
E2K/APC AP	E2000/APC connector adapter plate		
Miscellaneous			
BAR CODE	Bar code CCD reader for PMS Systems		

Micro Enterprises Interferometers



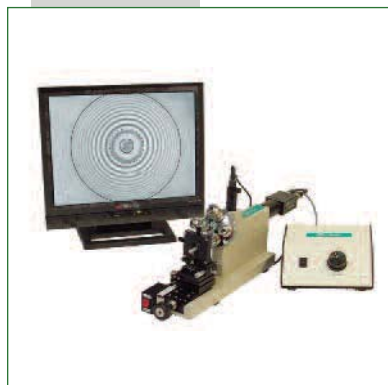
ME2520

Portable Interferometer

The ME2520 is a field portable interferometer that will allow the user to give a quick, pass/fail analysis with supplied overlay and without the use of a computer or any software.

Features & Benefits

- 10x Interferometer Lens (215x on screen mag.)
- 20x Inspection Lens (400x on screen magnification)
- 6.4" High Resolution LCD Display
- Quickly Inspect Connector Apex and Radius
- Pivot X-Y Centering Stage for Checking Undercut
- Blue LED Illumination with Variable Intensity Control
- 4-6 hour runtime on full charge
- Built in 24 VDC AC adapter / charger
- Built in rechargeable NiMH Battery pack
- Heavy duty waterproof Pelican Case
- 19"x 14" x 7" (w x d x h)
- 10lbs / 22kg



ME2525

Benchtop Interferometer

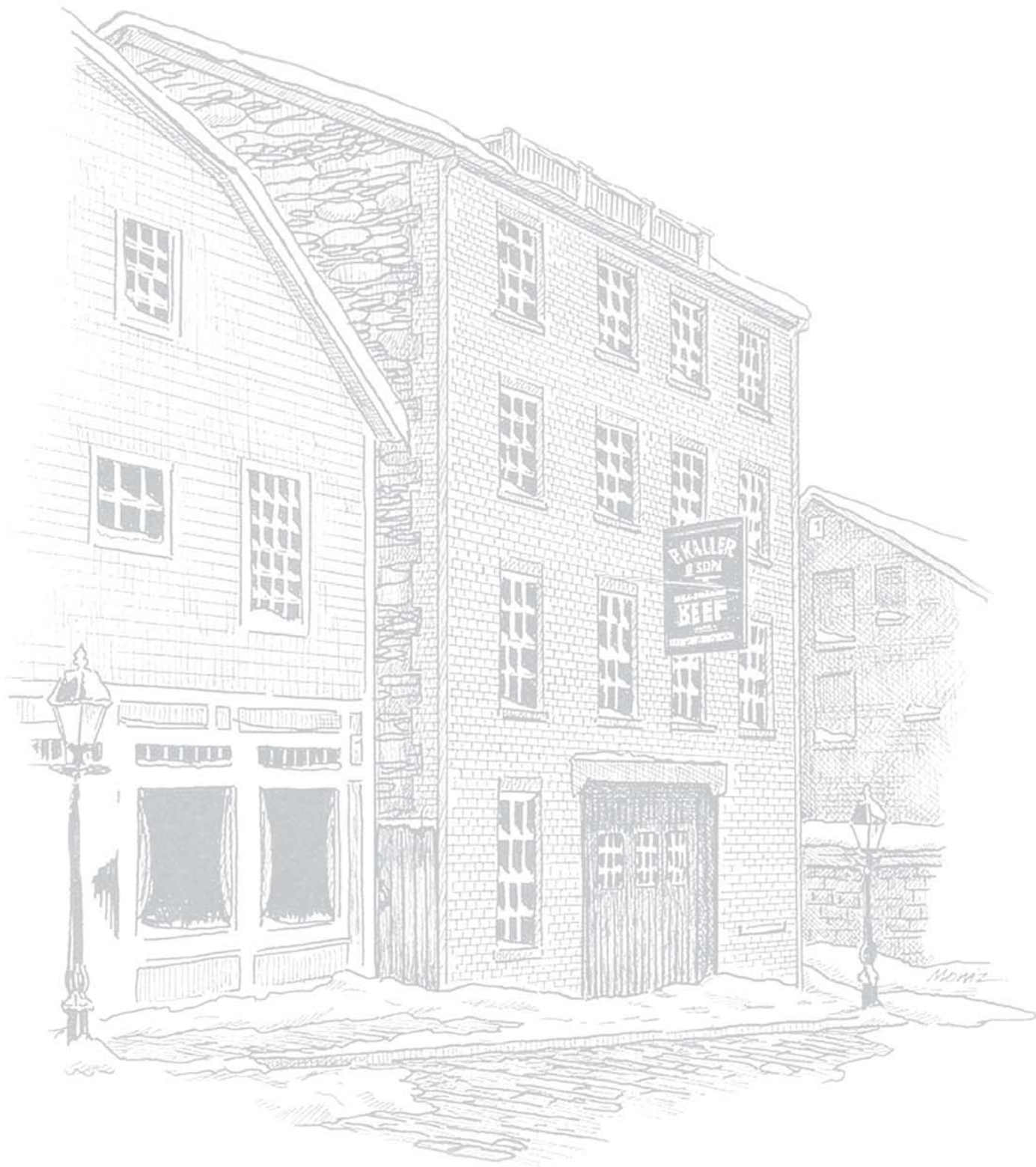
The ME2525 is a field portable interferometer that will allow the user to give a quick, pass/fail analysis with supplied overlay and without the use of a computer or any software.

Features & Benefits

- 10x Interferometer Lens (20x available upon request)
- 5x, 10x and 20x inspection lenses
- 15" High Resolution LCD Display
- Quickly Inspect Connector Apex and Radius
- Rotation Stage for Checking Undercut
- Blue LED Illumination with Variable Intensity Control

Ordering Information

Part #	Description
ME2520	Micro Enterprises ME2520 Portable Interferometer
ME2525	Micro Enterprises ME2525 Benchtop Interferometer



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Noyes Inspection Scopes



OFS300

Optical Fiber Scope

The OFS 300 is a versatile instrument for the inspection of optical fiber connectors. By employing universal adapter cap mount, it can inspect virtually any connector style for scratches, dirt, or other problems normally associated with poor transmission performance. The OFS 300 offers 60 hours of continuous battery life. A 2.5mm universal adapter cap, holster, and user's guide are included with OFS 300 scopes. The OFS 300-200C uses the same common threaded connector adapter caps as the Noyes Optical Power Meters and Loss Test Sets.

Features & Benefits

- Rugged handheld design
- 200X
- Universal adapter interface
- Laser safety filter installed



VS300

View Safe Inspection Scope

The VS 300 Video Fiber Scope removes concerns for eye safety while inspecting optical fiber connectors. The design eliminates the optical path to the eye by utilizing a miniature camera and a state-of-the-art micro-display that achieves unparalleled clarity and resolution.

Features & Benefits

- Resolves 3/4 micron scratches
- Universal "pan and lock" centering mount
- Battery Life = 10 hrs continuous
- Low Battery indicator
- Video Output

Ordering Information

Part Number	Description
OFS 300-200C	OFS 300 200X Handheld Optical Fiber Inspection Scope with 2.5 mm universal adapter cap & holster.
VS 300	VS 300 Inspection Scope, 2 x AA batteries, Neck Strap, 2.5mm Universal Adapter Cap and User's Guide

OFS 300 Accessories

Part Number	Description	Part Number	Description
2460-10-0002	OFS 300-200B spare bulb (5 min)	2460-10-0001	OFS 300 spare bulb (5 min)
2900-10-0003	OFS 300-400 zoom lens	2900-10-0004	OFS 300 20X eyepiece
1400-01-0025	OFS 300 Holster	2900-10-0001	OFS 300 Tripod carry case
1400-10-0005	Soft carry case	OFS1-00-0100	Hard carry case

VS 300 Accessories

Part Number	Description	Part Number	Description
1400-01-0055	Soft Carry Case	VOS3-00-0109	Hard Carry Case
VOS3-00-0104	Replacement Carry Case	2900-10-0001	Tripod Stand (table top)
VOS3-00-0107	Video Cable, VS 300 to VCP 1	VOS3-00-0108	Video Cable, VS 300 to RCA Plug
4050-00-0107	AC adapter 110VAC/ 9VDC		

Noyes Inspection Scopes



Adapter Caps

OPM Ports, OFS 300-200, VS 300 Power Meter and Inspection

Noyes *standard* thread-on adapter caps are used to mate non-angled single-fiber and dual-fiber connectors to optical power meter ports on our OPM, T400, T500, and ORL 3 series test sets, and inspection ports on our OFS 300-200C and VS 300 microscopes.

Ordering Information

Part Number	Description		
8800-00-0224	1.25 mm Universal Adapter Cap	8800-00-0210	ESCON Adapter Cap
8800-00-0214	2.5 mm Universal Adapter Cap	8800-00-0211	DIN 47256 Adapter Cap
8800-00-0200	FC Adapter Cap	8800-00-0205	FDDI (for meters) Adapter Cap
8800-00-0209	SC Adapter Cap	8800-00-0201	D4 Adapter Cap
8800-00-0202	ST Adapter Cap	8800-00-0223	1000 µm Adapter Cap
8800-00-0221	E-2000 Adapter Cap	8800-00-0226	MU Simplex Adapter Cap
8800-00-0204	Biconic Adapter Cap	8800-00-0230	MT-RJ (A side only) Adapter Cap
8800-00-0203	SMA Adapter Cap	8800-00-0231	MT-RJ (A side or B side) Adapter Cap
8800-00-0225	Simplex/Duplex Adapter Cap	8800-00-0232	Nickel Silver 2.5 mm Adapter Cap
8800-00-0212	Radial PFO/VFO Adapter Cap		



OFS 300-200 and VS 300 Inspection Only

Noyes thread-on angled and multifiber adapter caps are used to mate angled single-fiber as well as angled or non-angled multifiber connectors to our OFS 300-200C and VS 300 microscopes. Do not use the following adapter caps with our optical power meters or other test sets to measure optical power.

Ordering Information

Part Number	Description		
8800-00-0215	FDDI Kit Adapter Cap	8800-00-0236	Backplane 1.25 mm Adapter Cap
8800-00-0218	Angled FC Adapter Cap	8800-00-0237	MPX® Adapter Cap
8800-00-0220	Angled SC Adapter Cap	8800-00-0238	Angled MPX® Adapter Cap
8800-00-0229	Angled E-2000 Adapter Cap	8800-00-0241	0° MT Ferrule Adapter Cap
8800-00-0233	MTP® 0° Adapter Cap	8800-00-0242	8° MT Ferrule Adapter Cap
8800-00-0234	MTP® 8° Adapter Cap	8800-00-0244	1.6mm Ferrule (pin) Adapter Cap
8800-00-0235	SMC 0° Adapter Cap	8800-00-0248	2.0mm Ferrule (pin) Adapter Cap

Micro Enterprises Inspection Scopes



ME5000

Optispec Portable Microscope

The ME5000 Series portable microscope builds upon Optispec® long tradition of top quality inspection equipment specifically designed for the fiber optic industry. By utilizing either our dovetail or multi-adapter turret interface, the ME5000 enables the user to inspect a variety of connectors for imperfections such as scratches, chips, dirt or moisture on the fiber and ferrule.

With a combination of features that exceed those of other microscopes in its class, the ME5000 provides the operator with complete control over the image including focus, centering and light intensity adjustments. Using high quality optics, the ME5000 represents the top of the Optispec® line of portable microscopes for inspecting connectors in the field.

Features & Benefits

- High quality long working distance object lens
- X-Y centering allows inspection of surrounding ferrule
- Inspects a variety of connectors and bare fiber
- Rechargeable battery pack with built in charger
- Ideal for field inspection or light production
- Adjustable light intensity
- Lightweight and versatile ergonomic design
- Built-in laser safety filter

Ordering Information

Part Number	Description
ME5000	200x Handheld Microscope. Requires an adapter cap.
ME5100	100x Handheld Microscope with LC Pedestal for Inspecting LC Connectors.
ME5200	50x Handheld Microscope. Requires an adapter cap.
ME5300	100x Handheld Microscope. Requires an adapter cap.
ME5400	Variable 50 to 100x Handheld Microscope. Requires an adapter cap.
ME5500	Variable 100 to 200x Handheld Microscope. Requires an adapter cap.

ME5000 Accessories

Part Number	Description	Part Number	Description
Optics			
MP44461	Widefield 10x Eyepiece	MP41001	LWD 5x Objective 21.0mm W.D.
MP44472	Widefield 15x Eyepiece	MP41002	LWD 10x Objective 12.30mm W.D.
MP44473	Widefield 20x Eyepiece	MP41003	LWD 20x Objective 12.20mm W.D.
MP44415	Zoom Eyepiece 10x - 20x		
Accessories			
MP5065	120V AC Adapter / Battery Charger	MP5060	Heavy Duty Table Stand
MP5075	230V AC Adapter / Battery Charger	MP38006	Deluxe Carry Case w/ Handle
MP5063	Extra Battery Pack	MP44440	Multiple Adapter Turret w/ Handle
MP5056	Extra 2.5V Lamp	MP5051	MT/Mini MT Ferrule Removal Tool

Micro Enterprises Inspection Scopes



ME9600 & ME9700

Optispec Portable Microscope

Manufactured by Micro Enterprises Inc., the ME9600 builds upon our long tradition of high quality video inspection equipment specifically designed for the fiber optic industry. This highly portable videoscope includes many features that make it a valuable piece of equipment for the production floor or in the field.

The durable handle adjusts to become a built-in stand and allows the scope to tilt for several ergonomic viewing angles. The internal battery pack and charger provide enough power for the internal microscope, LCD display and even a ME9100 series bulkhead inspection scope. The sturdy, all metal chassis and cost effective design make the ME9600 the perfect tool for fiber inspection inside or outside any production facility.

Features & Benefits

- Cost Effective
- Durable Aluminum Construction
- Long lasting Co-Axial LED Illumination
- Adjustable handle tilts to become a stand
- High res TFT Display with built-in battery pack
- Dedicated input for using a ME9100 probe scope

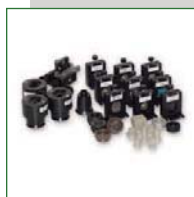
Ordering Information

Part Number	Description
ME9600	400x Handheld Video Microscope with 6.4" LCD Screen, 2.5mm and 1.25mm universal adapters
ME9700	400x Handheld Video Microscope with Capture Capability, 6.4" LCD Screen, 2.5mm and 1.25mm universal adapters

ME9600 Accessories

Part Number	Description	Part Number	Description
ME9100	400x Video Fiber Inspection Probe	ME9100-C	400x Color Video Fiber Inspection Probe
ME9300	200x Video Fiber Inspection Probe	ME9300-C	200x Color Video Fiber Inspection Probe
ME9200	Portable Battery Pack with USB Output	MP16070	USB 2.0 Video Grabber
MP38025	Crush-proof, Watertight Carry Case		
MP38026	Crush-proof, Watertight Carry Case with space for cleaning supplies		

Micro Enterprises Inspection Scopes



Adapter Caps

ME5000 & ME9600 Series

Micro Enterprises Inc. are constantly developing new products for our microscopes and some adapters may not be listed. Please contact us if a specific adapter is not listed below.

- Composite Plastic = wear resistant machined plastic
- Stainless Steel = improved wear resistance, machined steel
- Hardened Steel = best wear resistance, EDM'ed stainless steel

Ordering Information

Part #	Description	Part #	Description
2.5mm Connectors			
MP5095	2.5mm Univ for SC/FC/ST, stainless steel*	MP5030	2.5mm Univ for SC/FC/ST, composite plastic*
MP5096	2.5mm APC Univ for SC/FC/ST, stainless steel*	MP5031	2.5mm APC Univ for SC/FC/ST, composite plastic*
MP5091	E2000, composite plastic		
1.25mm Connectors			
MP5016	1.25mm Univ for LC/MU, composite plastic*	MP5097	1.25mm APC Univ for LC/MU, composite plastic*
MP5028	Keyed LC, composite plastic*		
Multi-fiber Connectors			
MP5041	MT-RJ, composite plastic*	MP5103	MT-RJ APC, composite plastic*
MP5050	MT Ferrule, composite plastic*	MP5067	MT Ferrule, hardened steel*
MP5002	MT APC Ferrule, composite plastic	MP5071	MT APC Ferrule, hardened steel*
MP5101	Mini MT, composite plastic*	MP5064	Mini MT, hardened steel*
MP5100	Mini MT APC, composite plastic*	MP5076	Mini MT APC, hardened steel*
MP5098	MPX, composite plastic*	MP5099	MPX APC, composite plastic*
MP5018	MTP/MPO, composite plastic*	MP5043	MTP/MPO APC, composite plastic*
MP5058	SMC, composite plastic*	MP5087	MPX Adjustable Dovetail, composite plastic
MP5089	MTP Adjustable Dovetail, composite plastic	MP5093	MTP APC Adjustable Dovetail, composite plastic
MP5017	MT Ferrule Adjustable Dovetail, composite plastic		
MP5093	MT Ferrule APC Adjustable Dovetail, composite plastic		
Other Connectors			
MP5078	Bare Fiber	MP5033	SMA, composite plastic*
MP5029	D4, composite plastic*	MP5032	Biconic, alloy metal*
MP5038	1.6mm Military Female, composite plastic	MP5039	1.6mm Military Male, composite plastic
MP5034	1.6mm Military/Bendix Pin, composite plastic*		

*These items require MP5069 Adapter Interface to mount to the scope

Westover Inspection Scopes



FM Series

Optical Fiber Scope

The C Series offers professional quality termination inspection for the most demanding users. The image quality, durability, and ease of use is second to none.

The DI-Series is a smaller version of the C-Series with the same optical performance. This microscope offers coaxial illumination for the highest level of image detail and oblique illumination that shows major defects and contaminants to prevent overpolishing.

The L Series is strongly preferred by maintenance technicians and installers who are not highly specialized in fiber. The fact that scratches are not as clear as when seen through our "C Series" is viewed as an advantage by many because it prevents over-polishing and wasted time - an excellent tool for less demanding applications.

The E series is the economy version of the L-Series scope

Features & Benefits

- C & DI-Series - Coaxial illumination provides the highest level of image detail
- L & E Series - Oblique illumination provides excellent view of ferrule cleanliness and core condition
- Rugged all metal design with crisp all-glass optics
- Integrated laser safety filters (datasheet available)
- Internal white LED delivers 100,000 hours of bulb life and greatly extended battery life (30+ hours)

Ordering Information

Part Number	Description	Part Number	Description
C-Series - Coaxial Illumination			
FM-C100	100X w/ Universal Adapter	FM-CX100	100X No Adapter
FM-C160	160X w/ Universal Adapter	FM-CX160	160X No Adapter
FM-C200	200X w/ Universal Adapter	FM-CX200	200X No Adapter
FM-C99	200X & 400X w/ Universal Adapter	FM-CX99	200X & 400X No Adapter
FM-C320	320X w/ Universal Adapter	FM-CX320	320X No Adapter
FM-C400	400X w/ Universal Adapter	FM-CX400	400X No Adapter
FM-C400L	400X Long Working Distance w/ Universal Adapter		
L-Series - Oblique Illumination			
FM-L100	100X w/ Universal Adapter	FM-LX100	100X No Adapter
FM-L160	160X w/ Universal Adapter	FM-LX160	160X No Adapter
FM-L200	200X w/ Universal Adapter	FM-LX200	200X No Adapter
E-Series - Oblique Illumination			
FM-E100	100X w/ 2.5mm Adapter	FM-E200	200X w/ 2.5mm Adapter
DI-Series - Coaxial & Oblique Illumination			
FM-DI100	100X w/ 2.5mm Adapter	FM-DI200	200X w/ 2.5mm Adapter

Westover Inspection Scopes



FMV Series Video Fiber Scope

The FMV Video Viewer provides an ergonomic and laser-safe method of viewing fibers even if you don't know if they are live. The system incorporates a built-in video microscope within the same housing as a 3.5" TFT LCD. A thumb wheel focus provides one handed operation. The patch cord scope itself accepts FMAE-Series adapters, but is configurable to accept FMA-Series adapters through the use of a coupler.

The FMV offers the terrific advantage of removing the user eye from any direct path associated with traditional optical microscopes.

The system also includes an input for our FBE probe microscopes and an A/B switch to change between video signals. This will allow the user to inspect both male connectors and bulkhead adapters (female) without having to change tips or adapters.

Ordering Information

Part Number	Description
FMV-200	200x Handheld Video Microscope with 3.5" LCD Screen
FMV-200-V	200x Handheld Video Microscope with 3.5" LCD Screen and Built-In Visual Fault Locator
FMV-400	400x Handheld Video Microscope with 3.5" LCD Screen
FMV-400-V	400x Handheld Video Microscope with 3.5" LCD Screen and Built-In Visual Fault Locator

All units require an FMA Series adapter cap sold separately

Westover Inspection Scopes



Adapter Caps

FMA & FMAE Series

- FMA Series - for the C-Series, L-Series and Video Fiber Scopes
- FMAE Series - for the DI-Series and E-Series Fiber Scopes

FMA Series Adapter Caps

Part Number	Description	Part Number	Description
Single Fiber Connectors			
FMA-U25	2.5mm Universal	FMA-U25-P	2.5mm Universal (Pro Version)
FMA-UAPC	2.5mm Universal, APC	FMA-UAPC-P	2.5mm Universal, APC (Pro Version)
FMA-U12	1.25mm Universal	FMA-U12-P	1.25mm Universal (Pro Version)
FMA-UA12-P	1.25mm Universal, APC (Pro Version)	FMA-U381	3.81mm Universal
FMA-BIC	Biconic	FMA-COD	Corning OptiTap
FMA-D4	D4	FMA-E2A	E2000, for PC & APC
FMA-FCPC	FC	FMA-FC-APC	FC-APC
FMA-LC	LC	FMA-LC-APC	LC-APC
FMA-LC-2X	LC Duplex	FMA-MU	MU
FMA-SC	SC	FMA-SC-APC	SC-APC
FMA-SMA	SMA	FMA-ST	ST
FMA-BF1	Bare Fiber (125um Fiber)	FMA-LEMO1	LEMO F2 Termini
FMA-MIL1	Mil 29504/14/15 Termini	FMA-MIL2	Mil 29504/4/5 Termini
Multi-fiber Connectors			
FMA-MTRJ-1	MTRJ, Simple Type	FMA-MTRJ-2	MTRJ, X-Y Axis Pan/Scroll
FMA-MT	MT, X-Y Axis Pan/Scroll	FMA-MTA	MT-APC, X-Y Axis Pan/Scroll
FMA-MTP	MTP, X-Y Axis Pan/Scroll	FMA-MTPA	MTP-APC, X-Y Axis Pan/Scroll
FMA-MPX	MPX, X-Y Axis Pan/Scroll	FMA-MPXA	MPX-APX, X-Y Axis Pan/Scroll
FMA-MMT-2	Mini-MT Ferrule, X-Y Axis Pan/Scroll		

FMAE Series Adapter Caps

Part Number	Description	Part Number	Description
FMAE-CA1	Converts FMA to FMAE	FMAE-CA2	Converts FMA to FMAE, Centerable
FMAE-U12	Universal 1.25mm	FMAE-U25	Universal 2.5mm
FMAE-UAPC	Universal 2.5mm, APC	FMAE-U25-SF	Universal 2.5mm, Slip Fit
FMAE--SC	SC	FMAE-SC-DUX	SC Duplex
FMAE-LC	LC	FMAE-LC-2X	LC Duplex
FMAE-FC	FC	FMAE-E2A	E2000
FMAE-MTRJ-3	MTRJ for 100x Only	FMAE-MTRJ-4	MTRJ for 200x Only
FMAE-MTP	MTP	FMAE-MTPA	MTP/APC

Specifications may change without notice

HAND-HELD INSPECTION SCOPES / F-8

TrueView Inspection Scopes



9025 Series Optical Fiber Scope

The Most Versatile and Affordable Fiber Inspection Scope on the Market

The 12-9025 100x fiber inspection microscope from TrueView Products features a low cost design perfect for inspecting patch cords and non-active fiber links for contamination that can increase loss in fiber based networks. The flat view adapter allows the user to view both the core and cladding as separate distinct layers and the angle view adapter does the same for angled connectors. This microscope features easily swappable adapter heads to accommodate several popular connector styles.

Ordering Information

Part Number	Included Adapter	Part Number	Included Adapter
12-9025	2.5mm	12AP9025	2.5mm APC
PK898	2.5mm & PSF22 Continuity Tester	PK898A	2.5mm APC & PSF22 Continuity Tester
PK12-9025	2.5mm & 2.5mm APC	12B9025	Bare Fiber
15LCS-9025	LC	15LCA-9025	LC APC
15LCD-9025	LC Duplex		
14MU-9025	MU	14MUA-9025	MU APC
16VPL-9025	VF-45	16VPUA9025	VF-45 APC
14MJ-9025	MT-RJ	14MJA-9025	MT-RJ APC
14MT-9025	MT	14MTP-9025	MTP

Adapter Caps

Part Number	Description	Part Number	Description
12FA	2.5mm Adapter	1222AA	2.5mm APC Adapter
9025-D4	D4 Adapter	TK9025	ST/SC/FC Knurl Adapter
9025-SMA	SMA Adapter	B9025BF	Bare Fiber Adapter
15LCS	LC Adapter	15LCA	LC APC Adapter
15LCD	LC Duplex Adapter	9025-BIC	Biconic Adapter
14MU	MU Adapter	14MUA	MU APC Adapter
16VPL	VF-45 Adapter	16VPUA	VF-45 APC Adapter
14MJ	MT-RJ Adapter	14MJA	MT-RJ APC Adapter
14MT	MT Adapter	14MTP	MTP Adapter
KB22	Krypton Replacement Bulb		

Westover Probe Scopes



FBP Professional Series

Westover's FBP Series probe microscopes revolutionized the industry by providing a compact design that fits in the palm of your hand, rugged drop-tested performance and precision tips that positively mate with the interface device so the fiber is easy to locate and examine. Competitive designs utilize poorly-conceived inspection tips and require extensive user training before they can be used in service. A complete inspection system requires a probe (video microscope), a tip suitable for the connector you are inspecting, and a display. Over the years our product line has grown to offer many choices for probes, displays and tips.

The FBP Series is the industry standard and occupies a massive market share due to its proven overall performance. Westover's most common model features dual magnification with a quick-change magnification wheel, which requires only a touch of refocus when changing the magnification setting. Value-priced single-magnification models are also available.

FBP probes are available in either 4-pin or 6-pin versions. The 6-pin models include a Quick-Capture™ button that, when used in conjunction with a 6-pin USB module, allows for single-handed operation with a PC.



FBP-P5000

Digital Probe Scope with FiberCheck2 Image Analysis Software

A digital version of the FBP scope, this unit captures and delivers an image to a computer through its USB 2.0 interface. The FiberCheck2 software then does a quick pass/fail analysis, removing operator subjectivity. This whole process happens in less than a second.



FBP-HD1

3.5" TFT LCD Hand Held Display

- Removable Li-ion battery w/ 3 hours run time
- Built-in power management system
- Adjustable auto-shutoff feature
- Fuel gauge showing remaining battery life
- Built-in charger that you can use while you charge
- Built-in hanging accessory for hands free operation



FBP-HD2

3.5" TFT LCD Hand Held Display

The HD2 display provide an economic alternative to the HD1 while also offering a series of optional features that increase the functionality and versatility of the handheld display. HD2 features include:

- Removable 8 x AA battery cartridge
- 6 hours run time
- Power-saving GripSwitch™ feature
- Built-in table stand
- Integrated Patchcord Viewer Module (Optional)
- Integrated Visual Fault Locator (Optional)



FBP-HD3

1.8" TFT LCD Hand Held Display

The HD3 product line provides ultimate portability in field applications with a compact design that fits in the palm of your hand. Features include:

- Built-in NiMH battery w/ 3 hours run time
- Power-saving GripSwitch™ feature
- Low battery warning LED
- Integrated Patchcord Viewer Module (Optional)

Westover Probe Scopes



FBP Professional Series Probe Kits

FBP-S Series kits are by far the most common worldwide for video-based field fiber inspection. These kits use the industry-leading FBP Series probes, HD1 displays, and precision FBPT tips to deliver professional grade performance. In addition, there are also kits which pair FBP Series probes with the USB module. There are many kits to choose from. If you do not see the configuration you are looking for, please check the system configuration matrix or consider purchasing the system as component parts.

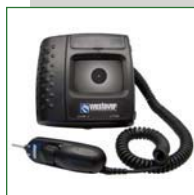
FBP-SE Series kits are termed "hybrid kits" and pair our industry leading FBP probe with a variety of different handheld display options. Some of these configurations are hardwired directly to an HD2 or HD3 display. Others include a connectorized probe, allowing users to chose from a wider variety of display options.

Ordering Information

Mag.	Probe Only	HD1 Kit	HD2 Kit	HD3 Kit	HD3 Kit w/ Patchcord Viewer
200x	FBP-P1	FBP-S001	FBP-SE01	FBP-SM01	--
400x	FBP-P1-400	FBP-S002	FBP-SE02	FBP-SM02	--
200/400x	FBP-P5	FBP-S003	FBP-SE03	FBP-SM03*	FBP-SM05*

The above kits come with SC, LC, U25 & U12 Tips

**These kits are available with cleaning supplies. Include a '-C' at the end of the part number. i.e. FBP-SM03-C*



FBE Access Series Probe Kits

FBE-S Series kits are designed for the field installer who primarily encounters the more common applications in today's fiber optic networks. These kits include an FBE Series probe hardwired to a hand-held video display (either HD2 or HD3). Note: FBE Series probes utilize their own inspection tips (FBET), which will support the more common connector configurations in fiber networks. While the selection tips for the FBE series is more limited than our FBP series, the performance of our FBE line still greatly exceeds that of other low-cost probe microscopes on the market. In developing this line, we have given the cost-focused user a truly fieldable, high-performance product

Ordering Information

Mag.	HD2 Kit	HD3 Kit	HD3 Kit w/ Patchcord Viewer
200x	FBE-S01	FBE-SM1*	--
400x	FBE-S02	FBE-SM2*	FBP-SM5*

The above kits come with SC, LC, U25 & U12 Tips

**These kits are available with cleaning supplies. Include a '-C' at the end of the part number. i.e. FBE-SM1-C*

FBE Series Probe Tips

Part Number	Description	Part Number	Description
FBET-FC	FC Bulkhead	FBET-U12	1.25mm Bulkhead
FBET-LC	LC Bulkhead	FBET-U12M	1.25mm Patch Cord
FBET-SC	SC Bulkhead	FBET-U25M	2.5mm Patch Cord
FBET-ST	ST Bulkhead	FBET-U25MA	2.5mm Patch Cord, APC
FBET-UFAE	Universal Flare Adapter, Connects FMAE Adapters to FBE for Patch Cords		

Westover Probe Scopes



FBP-HD2 & HD3 Display Options

Optional modules in the HD2 & HD3 lines are designed to deliver more utility at highly competitive prices including an integrated patch cord viewer and/or a Visual Fault Locator.

The integrated "patch cord viewer" module allows the user to inspect the fiber patch cord (i.e., male connector) directly on the display while still providing a means for bulkhead (i.e., female connector) inspection with an attached probe microscope. The user can simply toggle between viewing the patch cord and bulkhead, which allows inspection of both ends of a connection without having to change tips on the probe. This saves considerable time and cuts down on lost tips and adapters. The patch cord scope accepts our FMAE Series adapters, but is configurable to accept FMA Series adapters with the use of a coupler.

The integrated visual fault locator (VFL), only available in the FBP-HD2 line, allows user to troubleshoot newly spliced or terminated assemblies for breaks or excessive bends in a fiber cable. Purchasing an HD2 with an integrated VFL can save you up to 50% of the price of a stand-alone VFL.

Ordering Information

Version	No Patch Cord Viewer	200x Patch Cord Viewer	400x Patch Cord Viewer
HD2 w/ VFL	FBP-HD2-V	FBP-HD2-P2-V	FBP-HD2-P4-V
HD2	FBP-HD2	FBP-HD2-P2	FBP-HD2-P4
HD3	FBP-HD3	FBP-HD3-P2	FBP-HD3-P4

FBP3 Long Reach Series

As system capacities have increased, optical connectors have proliferated in backplane applications. Increasingly, those connectors are ribbon ferrule based. The FBP3 Series is purpose-built for reaching between adjacent cards/modules to reach optical connectors in the backplane. Westover's patented RibbonDrive™ technology is available for many multi-fiber connector configurations and provides the industry's only practical solution for backplane ribbon inspection. Our standard FBPT Series tips can also be used with the FBP3 probe for simplex backplane applications.

Ordering Information

Part Number	Description
FBP3-P3L	P3 Handle & Long Barrel, NTSC, No Ribbon Drive
FBP3-P3RL	P3 Handle & Long Barrel, NTSC, w/ Ribbon Drive

FBP3 Probe Tips with Ribbon Drive

Part Number	Description	Part Number	Description
FBP3-MTP	MTP Bulkhead	FBP3-MTPA	MTP-APC Bulkhead
FBP3-MTP-DC	MTP Daughtercard	FBP3-MTPA-DC	MTP-APC Daughtercard
FBP3-MPXA-MB	MPX-APC Motherboard	FBP3-MTPA-MB	MTP-APC Motherboard
FBP3-MPX	MPX Bulkhead	FBP3-MPXA	MPX-APC Bulkhead
FBP3-HBMT-DC	HBMT Daughtercard	FBP3-HBMTA-DC	HBMT-APC Daughtercard
FBP3-HBMT-MB	HBMT Motherboard	FBP3-HBMTA-MB	HBMT-APC Motherboard
FBP3-MT-MB2-JSF	MT Motherboard (JSF), 2 Position	FBP3-MT-MB6-JSF	MT Motherboard (JSF), 6 Position
FBP3-MT-MB6	MT Motherboard, 6 Position	FBP3-UA	Single Tip Adapter (no ribbon drive)

Westover Probe Scopes



Adapter Caps

FBP Series

Ordering Information

Part #	Description	Part #	Description
1.25mm Universal Tips			
FBPT-U12-A6	Universal 1.25mm Bulkhead, Angled 60 Degrees	FBPT-U12-PP	Universal 1.25mm Ferrules in Polishing Plates
FBPT-U12M	Universal 1.25mm Patch Cord	FBPT-U12M-90	Universal 1.25mm Patch Cord, Angled 90 Degrees
2.5mm Universal Tips			
FBPT-U25MA	Universal 2.5mm, APC Polish	FBPT-U25MA-SF	Universal 2.5mm, APC Polish, Slip Fit
FBPT-U25M	Universal 2.5mm Patch Cord	FBPT-U25M-90	Universal 2.5mm Patch Cord, Angled 90 Degrees
FBPT-U25M-SF	Universal 2.5mm Patch Cord, Slip Fit	FBPT-U25PL	Universal 2.5mm Patch Cord, Plastic Inner Ring
Single Fiber Connectors			
FBPT-D4	D4 Bulkhead	FBPT-LX5A	LX5 & F3000 Bulkhead
FBPT-E2000	E200 Bulkhead, APC or PC Polish	FBPT-E2A-A6	E2000 Bulkhead, Angled 60 Degrees, PC/APC
FBPT-FC	FC Bulkhead	FBPT-FC-A6	FC Bulkhead, Angled 60 Degrees
FBPT-FC-P	FC Bulkhead, Pro Version	FBPT-FC-APC	FC-APC Bulkhead
FBPT-FCA-1	FC-APC Bulkhead, No Collar	FBPT-FCAPC-L	FC-APC Bulkhead, Long Reach
FBPT-LC	LC Bulkhead	FBPT-LC-A6S	LC Bulkhead, Square, Angled 60 Degrees
FBPT-LC-L	LC Bulkhead, Long Reach	FBPT-LC-XL	LC Bulkhead, Extra Long Reach
FBPT-LC-DC	LC Daughtercard	FBPT-LC-APC	LC-APC Bulkhead
FBPT-MU	MU Bulkhead	FBPT-MU-DC	MU Daughtercard
FBPT-MU-L	MU Bulkhead, Long Reach	FBPT-MU-XL	MU Bulkhead, Extended Reach
FBPT-SC	SC Bulkhead	FBPT-SC-A6	SC Bulkhead, Angled 60 Degrees
FBPT-SC-L	SC Bulkhead, Long Reach	FBPT-SC-TS	SC Bulkhead, Tx/ Rx Lens Assembly Inspection
FBPT-SC-DC	SC Daughtercard	FBPT-SC2	SC2 Bulkhead
FBPT-SC-APC	SC-APC Bulkhead	FBPT-SCA-A6	SC-APC Bulkhead, Angled 60 Degrees
FBPT-SCA-DC	SC-APC Daughtercard	FBPT-SCFC-A6	SC/FC Bulkhead, Angled 60 Degrees
FBPT-SMA	SMA Bulkhead	FBPT-SMA-PP	SMA Ferrule in Polishing Plates
FBPT-ST	ST Bulkhead	FBPT-ST-A6	ST Bulkhead, Angled 60 Degrees
FBPT-ST-L	ST Bulkhead, Long Reach	FBPT-BIC	Biconic Bulkhead
Multi-Fiber Connectors			
FBPT-MPX	MPX Bulkhead, X-Axis Pan Knob	FBPT-MPX-MB	MPX Motherboard, X-Axis Pan Knob
FBPT-MPXA	MPX-APC Bulkhead, X-Axis Pan Knob	FBPT-MPXA-DC	MPX-APC Daughtercard, X-Axis Pan Knob
FBPT-MPXA-MB	MPX-APC Motherboard, X-Axis Pan Knob	FBPT-MTRJ-1	MTRJ Bulkhead, Simple Type
FBPT-MT-DC	MT Daughtercard, X-Axis Pan Knob	FBPT-MTA-DC	MT-APC Daughtercard, X-Axis Pan Knob
FBPT-MTP	MTP Bulkhead, X-Axis Pan Knob	FBPT-MTP-A6	MTP Bulkhead, X-Axis Pan Knob, Angled 60 Degrees
FBPT-MTP-DC	MTP Daughtercard, X-Axis Pan Knob	FBPT-MTP-MB	MTP Motherboard, X-Axis Pan Knob
FBPT-MTPA	MTP-APC Bulkhead, X-Axis Pan Knob	FBPT-MTPA-DC	MTP-APC Daughtercard, X-Axis Pan Knob
FBPT-MTPA-MB	MTP-APC Motherboard, X-Axis Pan Knob	FBPT-MTPA-L	MTP-APC Bulkhead, Extended Reach
Military & Broadcast Connectors			
FBPT-MIL-1P	Mil 20504/14/15 Pins	FBPT-MIL-1S	Mil 20504/14/15 Sockets
FBPT-MIL-2P	Mil 20504/4/5 Pins	FBPT-MIL-2S	Mil 20504/4/5 Sockets
FBPT-MIL2-A6	Mil 29504/4/5, Angled 60 Degrees	FBPT-MIL-2P-X	Mil 20504/4/5 Pins, Modified to 0.064" Bore
FBPT-MIL-3S	Mil Type 3 Sockets	FBPT-MIL-EHP	Hull Penetrator Sockets
FBPT-MIL-2CPA	Test Probe Adapter for M38999	FBPT-38999-G006	Guide, 38999 Plug, Size 13, Sockets, w/Size 16 Contacts
FBPT-38999-G007	Guide, 38999 Receptacle, Size 13, Pins, w/Size 16 Contacts	FBPT-38999-G008	Guide, 38999 Receptacle, Size 13, Sockets, w/Size 16 Contacts
FBPT-LEMO1-P	LEMO F2 Pins	FBPT-LEMO1-S	LEMO F2 Sockets
FBPT-TFOCA1	TFOCA1	FBPT-TFOCA2	TFOCA2
FBPT-COD	OptiTap Multiport, Economy	FBPT-COD-L	OptiTap Multiport
FBPT-COD-MT	CON2R, OptiTip Ribbon	FBPT-COD-MTOA	CON2R, OptiTip Ribbon, Optical
FBPT-COD-MTPG	CON2R, OptiTap, Plug	FBPT-COD-MTRG	CON2R, OptiTap, Receptacle
Conversion Adapter			
FBPT-UFMA	Universal Flare Adapter, Connects FMA Adapters to FBP		

Specifications may change without notice

Micro Enterprises Probe Scopes



ME9100/9300

Optispec Portable Probe Scope

Manufactured by Micro Enterprises Inc., the ME9100 Series Video Microscopes are designed for inspecting fiber optic connectors through bulkheads. These instruments are equipped with a specially designed, extra long working distance objective that allows the operator to inspect the end face of a fiber optic connector while mounted inside a system.

Function in Design

Two magnifications are available to inspect backplane connectors in different types of systems. The ME9100 and ME9300 scopes have a straight optical path with an optional 90 degree tip to inspect "hard to reach" behind the wall connectors.

Image Centering

All models are equipped with centering mechanisms allowing the operator to center the core of the fiber on the display or inspect the surrounding ferrule for contaminants and defects.

LED Illumination

All models utilize near ultraviolet LED illumination to increase resolution of fine scratches. Providing over 100,000 hours of light, the LED will rarely need replacing or adjustment. A side mounted knob provides light intensity control.

Quick Change Adapters

A variety of adapters are available for inspecting jumpers, front plane, and back plane connectors. All models may be equipped to inspect universal 2.5mm connectors, small form factor connectors such as LCs and MUs, and even multiple fiber connectors including MTRJ, MTP, and MT ferrules.

Features & Benefits

- Available with a variety of adapters for inspecting fiber optic connectors through bulkheads
- Available with high or low magnification providing up to 650x video magnification
- High resolution monochromatic CCD Camera
- Adjustable Optispec Blue LED illumination

Ordering Information

Part Number	Description
ME9300	200x Video Fiber Inspection Probe (Requires adapter tip and monitor/hand held display)
ME9100	400x Video Fiber Inspection Probe (Requires adapter tip and monitor/hand held display)

Accessories

Part Number	Description	Part Number	Description
ME9500	6.4" Portable Video Display	MP9200	Battery Pack w/ USB & Analog Output
MP38025	Crush-proof, Watertight Carry Case	ME9150	Heavy-Duty Table Top Stand
MP19117	12" High Res. B&W Video Monitor	MP19110	9" High Res. B&W Video Monitor

Micro Enterprises Probe Scopes

Adapter Tips

ME9100 & ME9300 Series

Bulkhead Tips

Part #	Description	Part #	Description
2.5mm Connectors			
MP9142	FC Bulkhead	MP9142-R	FC Bulkhead - 90 Degree
MP9178	FC/APC Bulkhead	MP9179	SC/APC Bulkhead
MP9145	SC Bulkhead	MP9145-R	SC Bulkhead - 90 Degree
MP9125	ST Bulkhead	MP9125-R	ST Bulkhead - 90 Degree
1.25mm Small Form Factor Connectors			
MP9151	MU Bulkhead	MP9151-R	MU Bulkhead - 90 Degree
MP9143	LC Bulkhead	MP9143-R	LC Bulkhead - 90 Degree
MP9180	LC/APC Bulkhead		
Multiple Fiber Connectors			
MP9181	SMC Bulkhead	MP9191	SMC Bulkhead - 90 Degree*
MP9115	MTRJ Bulkhead	MP9115-R	MTRJ Bulkhead - 90 Degree
MP9150	MP Bulkhead Adjustable	MP9184	MPX Adjustable Bulkhead
MP9137	MTP Adjustable Bulkhead	MP9194	MTP Bulkhead - 90 Degree*
MP9185	MTP/APC Adjustable Bulkhead		
Other Connectors			
MP9189	E2000 Bulkhead	MP9188	E2000/APC Bulkhead

* Requires the MP9190 90-degree adapter with adjustable lever

Patch Cord Tips

Part #	Description	Part #	Description
2.5mm Connectors			
MP9138	2.5mm Univ for SC/FC/ST for Patch Cords	MP9140	2.5mm APC Univ for SC/FC/ST for Patch Cords
1.25mm Small Form Factor Connectors			
MP9139	1.25mm Univ for LC/MU for Patch Cords	MP9141	1.25mm APC Univ for LC/MU for Patch Cords
Multiple Fiber Connectors			
MP9127	MT Ferrule Adjustable Adapter for Patch Cords	MP9152	MTRJ Adapter for Patch Cords
MP9110	MTP Adjustable Adapter for Patch Cords	MP9146	MTP/APC Adjustable Adapter for Patch Cords

Noyes Probe Scopes



VFS 2

Video Fiber Scopes

The VFS 2 is a small versatile video fiber scope, which retains the superior image quality associated with Noyes inspection products. The unique "optical-knuckle" allows the user to orient the probe head in virtually any direction. This feature allows the user to view connectors that may be located in tight or difficult locations. With a probe head length of less than 8 cm (3.25"), access into crowded/cramped quarters becomes a reality.

The VFS 2 resolves $\frac{3}{4}$ micron scratches, keeping with our standard of quality end-face images. This unit is designed for one-handed operation and with the "optical-knuckle" feature, the unit is equally easy for both right and left handed individuals.

The VFS 2 probe may be paired with the VFS 2 high-resolution 3.5" Display unit.

Also, the VFS 2 Inspection Probe may be used with the VCP 1 Video Capture Port, which allows the user to inspect fiber optic end-faces and capture viewed images on a PC.

Features & Benefits

- Unparalleled access to connectors & bulkheads
- One-handed operation
- Resolves $\frac{3}{4}$ micron scratches
- Precision adapter tips for easy centering
- 350-micron field of view (diagonal)
- Advanced lithium ion battery
- Smooth, precision focusing (left or right handed)

Ordering Information

Part Number	Description
VFS2-00-0900	Probe, 3.5" Display Unit, 2.5mm Universal Adapter Tip, AC Adapter, One Internal Lithium-Ion Battery, User's Guide, and Carry Case
VFS2-00-0903	Probe, USB Interface Unit (VCP 1) with Image Capturing Software, User's Guide, and Carry Case. Adapter tips are required and sold separately.

Accessories

Part Number	Description	Part Number	Description
4050-00-0118PR	AC Adapter	3900-05-0002PE	VFS 2 Li-Ion battery pack
VFS2-00-0001	VFS 2 probe only	VFD2-00-0001	VFS 2 Display only
VFS2-02-0108	Converter: VFS 2 to VS 300 adapter caps	VCP1-00-0900	Video Capture Port-USB Interface & Software
VOS3-00-0108	External Monitor Cable, VFS2 Display to RCA Jack		

Adapter Tips

Part Number	Description	Part Number	Description
VFS2-02-0100	FC	VFS2-02-0110	FC/APC
VFS2-02-0101	SC	VFS2-02-0111	SC/APC
VFS2-02-0113	SC II	VFS2-02-0102	ST
VFS2-02-0117	MU	VFS2-02-0112	LC
VFS2-02-0115	E 2000	VFS2-02-0114	D4
VFS2-02-0118	Biconic		
VFS2-02-0105	2.0mm Universal for male Mil C 28876	VFS2-02-0106	2.0mm Universal for Female Mil C 28876
VFS2-02-0108	1.6mm Universal for male Mil C 38999	VFS2-02-0109	1.6mm Socket for Female Mil C 38999
VFS2-02-0103	2.5mm Universal (for patch cords)	VFS2-02-0104	1.25mm Universal (for patch cords)

Specifications may change without notice

HAND-HELD INSPECTION SCOPES / F-16

Noyes Single Mode & Multimode Optical Loss Test Sets

To accommodate your fiber optic loss testing needs, Noyes offers a variety of multimode (MLP) test kits, single-mode (SLP) test kits, single-mode/multimode (SMLP) and Contractor Series (CK) test kits. These kits are ideal solutions for testing and certifying a range of networks such as LANs, WANs, IXC, CATV and Telecom. Kits come complete with an adapter cap, software, download cable and instructions.

Test Set Options:

Wave ID - Light source transmits a wave ID that the power meter reads to automatically select and measure the appropriate wavelength. Systems without the feature require the operator to manually set the power meter to the correct wavelength.

Set Reference - Power meter can set a reference to the light source's output power, allowing it to display optical loss in dB. Test sets without this feature require the operator to record the power level in dBm before and after the insertion of the cable under test. The first number is then subtracted from the second to calculate the loss in dB.

Data Storage - Power meter can store measurements which can be transferred to a PC using a USB connection and supplied Windows compatible software for further analysis, printing and storage.



C880

Bi-Direction, Dual-Wavelength Testing Capabilities

Combining two C840 Certification Testers, the Noyes C880 QUAD Certification Test Kit from AFL Telecommunications is designed for testing and troubleshooting both multimode and single-mode fiber links. Each tester includes an integrated Visual Fault Locator (VFL, 650 nm), both single-mode (Laser 1310/1550 nm) and multimode (LED 850/1300 nm) Optical Light Sources (OLS), and an Optical Power Meter (OPM). Each tester may be used alone as a traditional power meter, light source or visual fault locator.

In Auto Test mode, the user may perform certification tests to one of the industry cabling standards (TIA, ISO, EN), one or more application standards, or a user-defined loss/length limit. Certification reports may be generated based on the selected standards and rules using PC reporting software.

The transfective touch screen display of the C840 tester is suitable for both indoor and outdoor operation.

Thousands of test results may be stored internally for transfer to a computer via a USB cable or a standard USB drive. Once test data is transferred to a computer, the supplied Windows® compatible software allows technicians to view, print, and generate professional certification reports.



SMLP 5-5

Wave ID, Set Reference and Data Storage

The SMLP5-5 test kit combines the OPM5-2D optical power meter and OLS4 integrated LED and LASER light source and is ideally suited for testing fiber optic networks with hybrid (single-mode and multimode) cables.

SMLP 4-4

Wave ID and Set Reference

The SMLP4-4 test kit combines the OPM4-2D optical power meter and OLS4 integrated LED and LASER light source and is ideally suited for testing fiber optic networks with hybrid (single-mode and multimode) cables.



CKSM-2

Set Reference Contractor Series

The CKSM-2 combines the CSM1-2 optical power meter, CSS1-MM Dual LED light source, and CSS1-SM Dual LASER source for a cost-effective test kit designed for performing insertion loss measurements on multimode as well as single-mode fiber optic links.

The Contractor Series test sets are rugged, light weight units developed to be an economical option for installers who need a good general purpose, field usable system.

Noyes Single Mode Optical Loss Test Sets



OLTS 5

Bi-Direction, Dual-Wavelength Testing Capabilities

The OLTS 5 may be operated in automatic or manual test modes. In its "two-unit" automatic test mode, a pair of OLTS 5 test sets may be used to measure the end-to-end, bi-directional insertion loss of a pair of single-mode fibers at 1310/1550nm or 1550/1625 nm. Tests are started and controlled by the user from the OLTS 5 configured as the Main unit. Test progress messages and results are displayed on the Remote unit. Full test results can be reviewed and saved in the Main unit. Thresholds may be set to provide Pass/Fail results.

In its "single-unit" automatic test mode the OLTS 5 can measure bi-directional, dual-wavelength insertion loss of patch cords, or fiber optic cables while they are still on the reel.

In the manual operating mode individual OLTS 5 test sets can operate either as an optical power meter (OPM) or dual-wavelength laser source.

The OLTS 5 can store dual-wavelength, bi-directional insertion loss results for up to 1,000 fibers. Test results can be organized in up to 20 user-named files. Results are transferred to a PC via a serial link. Windows® software is provided to view, edit, and print test results.

OLTS 5 units are sold individually but normally used in pairs.



SLP 5 Series

Wave ID, Set Reference and Data Storage

The **SLP5-6D** test kit combines the OPM5-4D optical power meter and OLS2-Dual LASER light source and is ideally suited for testing single-mode fiber optic networks.

The SLP5 triple wavelength single-mode test kits are available in two models, **SLP5-FTTH** and **SLP5-7**. The SLP5-FTTH and SLP5-7 model combine the OPM5-4D optical power meter and either OLS7-FTTH (1310/1490/1550 nm) or OLS7-3 (1310/1550/1625 nm) LASER source respectively.



SLP 4 Series

Wave ID and Set Reference

The **SLP4-6D** test kit combines the OPM4-4D optical power meter and OLS2-Dual LASER light source and is ideally suited for testing single-mode fiber optic networks.

The SLP4 triple wavelength single-mode test kits are available in two models, **SLP4-FTTH** and **SLP4-7**. The SLP4-FTTH and SLP4-7 model combine the OPM4-4D optical power meter and either OLS7-FTTH (1310/1490/1550 nm) or OLS7-3 (1310/1550/1625 nm) LASER source respectively.

Noyes Multimode Optical Loss Test Sets



MLP 5-2

Wave ID, Set Reference and Data Storage

The MLP5-2 test kit combines the OPM5-2D optical power meter and OLS1-Dual LED light source and is ideally suited for testing multimode fiber optic networks.



MLP 4-2

Wave ID and Set Reference

The MLP4-2 test kit combines the OPM4-2D optical power meter and OLS1-Dual LED light source and is ideally suited for testing multimode fiber optic networks.



CKM-2

Set Reference Contractor Series

The CKM-2 combines the CSM1-2 optical power meter and CSS1-MM Dual LED light source for a cost-effective test kit designed for performing insertion loss measurements on multimode fiber optic links. The Contractor Series test sets are rugged, light weight units developed to be an economical option for installers who need a good general purpose, field usable system.



MLP 1

Basic Test Kit

The MLP1 test kits are inexpensive solutions for testing multimode and single-mode systems. By joining the OPM1 optical power meter and the OLS1 optical light source, the MLP1 is a great kit for beginners or network owners. Two versions of the MLP1 test kit are available for testing Premises networks, LAN, and Gigabit Ethernet. The MLP1-1S test kit includes the OPM1-2C power meter and OLS1-1C light source. The MLP1-2 test kit combines the OPM1-2C optical power meter and OLS1-2C optical light source.

Noyes Optical Loss Test Sets

All test kits include an optical power meter, optical light source, adapter cap, protective rubber boots, user's guide and carry case.
*Specify one source/adapter cap connector type when ordering. Additional adapter caps and AC adapters may be ordered separately.

Ordering Information

Model	Power Meter	Light Source	Fiber Type	Output Wavelengths (nm)							Units of Measure	Dynamic Range (dB)	Available Connector Types*	Features		
				660	850	1300	1310	1490	1550	1625				Set Ref.	PC Software & Storage	Auto Dual Wave Test
CKM-2	CSM1-2	CS51-MM	MM		●	●					dB, dBm, W	40 ¹	SC	●		
CKSM-2	CSM1-2	CS51-MM CS51-SM	MM SM		●	●	●		●		dB, dBm, W	40 @ 850/1300nm ¹ 60 @ 1310/1550nm ²	SC	●		
MLP1-15	OPM1-2C	OLS1-1C	MM		●						dBm	40 @ 850nm ¹	ST	●		
MLP1-2	OPM1-2C	OLS1-2C	MM SM		●	●					dBm	40 @ 850/1300nm ¹ 20 @ 1300nm ²	ST	●		
MLP4-1D	OPM4-1D	OLS1-1C	MM	●	●						dB, dBm, W	40 @ 850nm ¹	ST			
MLP4-2	OPM4-2D	OLS1-Dual	MM SM		●	●					dB, dBm, W	40 850/1300nm ¹ 22 @ 1300nm ²	FC, SC, ST			●
MLP5-2B	OPM5-2D	OLS1-Dual	MM SM		●	●					dB, dBm, W	40 @ 850/1300nm ¹ 22 @ 1300nm ²	FC, SC, ST	●	USB	●
SLP4-6	OPM4-3D	OLS2-Dual	SM				●		●		dB, dBm, W	70 ²	FC, SC, ST, LC	●		●
SLP4-6D	OPM4-4D	OLS2-Dual	SM				●		●		dB, dBm, W	50 ²	FC, SC, ST, LC	●		●
SLP4-7	OPM4-4D	OLS7-3	SM				●		●	●	dB, dBm, W	45 ²	FC, SC, ST, LC	●		●
SLP4-FTTH	OPM4-4D	OLS7-FTTH	SM				●	●	●		dB, dBm, W	45 ²	FC, SC, ST, LC	●		●
SLP5-6	OPM5-3D	OLS2-Dual	SM				●		●		dB, dBm, W	70 ²	FC, SC, ST, LC	●	USB	●
SLP5-6D	OPM5-4D	OLS2-Dual	SM				●		●		dB, dBm, W	50 ²	FC, SC, ST, LC	●	USB	●
SLP-5-7	OPM5-4D	OLS7-3	SM				●		●	●	dB, dBm, W	45 ²	FC, SC, ST, LC	●	USB	●
SLP5-FTTH	OPM5-4D	OLS7-FTTH	SM				●	●	●		dB, dBm, W	45 ²	FC, SC, ST, LC	●	USB	●
SMLP4-4	OPM4-2D	OLS4	MM SM		●	●	●		●		dB, dBm, W	40 @ 850/1300nm ¹ 60 @ 1310/1550nm ²	FC, SC, ST, LC	●		●
SMLP5-5	OPM5-2D	OLS4	MM SM		●	●	●		●		dB, dBm, W	40 @ 850/1300nm ¹ 60 @ 1310/1550nm ²	FC, SC, ST, LC	●	USB	●
OLTS 5-3	OLTS 5 test sets can operate either as an optical power meter (OPM) or dual-wave-length laser source	SM					●		●		dB, dBm, W	65 ²	FC, SC, ST	●	Serial Link	Bi-Directional
OLTS 5-5		SM							●	●	dB, dBm, W	65 ²	FC, SC, ST	●	Serial Link	Bi-Directional
OLTS 5-6		SM					●		●		dB, dBm, W	55 ²	FC	●	Serial Link	Bi-Directional
C880-100-LP1-S1 (SC/LC Kit)			MM SM													
C880-100-LP1-S2 (SC/ST Kit)					●	●	●		●		dB, dBm, W		SC, ST, LC	●	USB	Bi-Direc- tional
C840-100-LP1-S1 (Single Unit)																

1 On 62.5/125um multimode fiber.

2 On 9/125um single-mode fiber.

Accessories

Part Number	Description	Part Number	Description
AC Adapters (90-264 VAC to 9 VDC)			
4050-00-0111	For OLS1 and OLS2	4050-00-0112PR	For OLTS 5
4050-00-0119PR	For OLS1-Dual, OLS 2-Dual, OLS 4, and OLS 7		
OLS Connector Adapters (D models starting February 2006)			
2900-50-0002MR	SM/MM FC Interface	2900-50-0004MR	SM/MM ST Interface
2900-50-0003MR	SM/MM SC Interface	2900-50-0004MR	SM/MM LC Interface
OLTS 5 Accessories			
6000-00-0023MR	USB to RS232 DB9M	3900-04-0106PE	NiMH-AA battery pack
Mandrel Wraps			
5400-00-0201	62.5um fiber, 3mm jacket	5400-00-0202	50um fiber, 3mm jacket
5400-00-0900	Kit containing both the 5400-00-0201 and 5400-00-0202		

Noyes Optical Light Sources



OLS 4

Integrated LED & Laser Light Source with Wave ID

The OLS4 features 850/1300nm multimode LED port and 1310/1550nm singlemode LASER port. Each wavelength may be transmitted individually or simultaneously with Wave ID. Simultaneous output allows the operator to test two wavelengths at the same time when using a compatible OPM4 or OPM5 series power meter.



OLS 7 Series

Triple Wavelength Laser Light Source with Wave ID

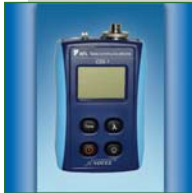
The OLS7-FTTH model is designed specifically for today's FTTH network architectures featuring a triple wavelength LASER output from a single port: 1310nm output for testing in the upstream direction and 1490 or 1550nm, for testing in the downstream direction. The OLS7-3 model features 1310/1550/1625 nm triple wavelength LASER output that is used for single-mode applications, such as Telecom or CATV.



OLS 2-Dual

Dual Wavelength Laser Light Source with Wave ID

the OLS2-Dual features 1310nm and 1550nm LASER output from a single output port. Each wavelength may be transmitted individually or simultaneously with Wave ID. Simultaneous output allows the operator to test two wavelengths at the same time when using a compatible OPM4 or OPM5 series power meter.



CSS1-SM

Dual Wavelength Laser Light Source Contractor Series

The CSS1-SM features 1310nm and 1550nm LASER output from a single output port and is easy to operate. Each wavelength may be transmitted individually only.



OLS 1-Dual

Dual Wavelength LED Light Source with Wave ID

the OLS1-Dual features 850nm and 1300nm LED output from a single output port. Each wavelength may be transmitted individually or simultaneously with Wave ID. Simultaneous output allows the operator to test two wavelengths at the same time when using a compatible OPM4 or OPM5 series power meter.



OLS 1

Two Port LED Light Source

The OLS1 is easy to operate with only a [Wavelength/ Power] switch, which selects between 850nm and 1300nm optical wavelengths or disables unit. 660nm is also available.



CSS1-MM

Dual Wavelength LED Light Source Contractor Series

The CSS1-MM features 850nm and 1300nm LED output from a single output port and is easy to operate. Each wavelength may be transmitted individually only.

Noyes Optical Light Sources

* When ordering, specify connector type at the end of model number (e.g. OLS 2-DUAL-SC)

All OLS models include protective rubber boot, user's guide, and carry case.

AC Adapters are available (ordered separately), see table below.

Ordering Information

Model	Output Wavelengths (nm)							Output Ports	Emitter Type	Safety Class		Output Power (nominal, dBm)	Stability	Wave ID Transmit	Available Connector Types*	Power
	660	850	1300	1310	1490	1550	1625			FDA	IEC					
CSS1-MM		•	•					1	LED	N/A	1	-20	±0.1 dB / 1 Hr		SC	(2) AA
CSS1-SM				•		•		1	Laser	1	1	0	±0.05 dB / 1 Hr		FC, SC, ST, LC	(2) AA
OLS1-1C	•	•						2	LED	N/A	1	-10 @ 660nm -20 @ 850nm	±0.1 dB / 8 Hr		ST	9 Volt, AC
OLS1-2C		•	•					2	LED	N/A	1	-20	±0.1 dB / 8 Hr		ST	9 Volt, AC
OLS1-Dual		•	•					1	LED	N/A	1	-20	±0.1 dB / 8 Hr	•	FC, SC, ST	(2) AA, AC
OLS2-Dual				•		•		1	Laser	1	1	0 ²	±0.05 dB / 1 Hr	•	FC, SC, ST, LC	(2) AA, AC
OLS4		•	•	•		•		2	LED & Laser	1	1	-20 @ 850nm -20 @ 1300nm 0 @ 1310nm 0 @ 1550nm	±0.05 dB / 1 Hr	•	FC, SC, ST, LC	(2) AA, AC
OLS7-3				•		•	•	1	Laser	1	1	-5	±0.05 dB / 1 Hr	•	FC, SC, ST, LC	(2) AA, AC
OLS7-FTTH				•	•	•		1	Laser	1	1	-5	±0.05 dB / 1 Hr	•	FC, SC, ST, LC	(2) AA, AC

1 Adjustable ±1 dB.

2 Adjustable 2 dB.

FDA does not regulate LED sources.

660nm LED output power specified into 1000um fiber. All other LED output powers specified into 62.5um fiber.

All Laser output powers are specified into 9/125um single-mode fiber.

Accessories

Part Number	Description
AC Adapters	
4050-00-0111	90-264 VAC to 9 VDC for OLS1 and OLS2
4050-00-0119PR	90-264 VAC to 9 VDC for OLS1-Dual, OLS 2-Dual, OLS 4, and OLS 7
Connector Adapters (D models starting February 2006)	
2900-50-0002MR	SM/MM FC Interface (D Model)
2900-50-0003MR	SM/MM SC Interface (D Model)
2900-50-0004MR	SM/MM ST Interface (D Model)
2900-50-0004MR	SM/MM LC Interface (D Model)
Mandrel Wraps	
5400-00-0201	62.5um fiber, 3mm jacket
5400-00-0202	50um fiber, 3mm jacket
5400-00-0900	Kit containing both the 5400-00-0201 and 5400-00-0202

Noyes Optical Power Meters



OPM 5 Series

Optical Power Meter with Wave ID, Set Reference and Data Storage

The OPM5 features automatic wavelength identification and switching (Wave ID) when used with Noyes OLS series light sources, multiple test Tone detection for fiber identification, and stores optical references for each calibrated wavelength and up to 500 records per wavelength of power or insertion loss measurements. Using the supplied Windows® compatible software and USB connection, test records are transferred to a PC for analysis, printing, and storage. A large dual-wavelength LCD display with backlight shows measured power [dBm or μ W] or insertion loss [dB], calibrated wavelengths [nm], tone signal [Hz], wavelength ID, and estimated remaining battery life.



OPM 4 Series

Optical Power Meter with Wave ID and Set Reference

The OPM4 features automatic wavelength identification and switching (Wave ID) when used with Noyes OLS series light sources, multiple test Tone detection for fiber identification, and stores optical references for each calibrated wavelength. A large dual-wavelength LCD display with backlight shows measured power [dBm or μ W] or insertion loss [dB], calibrated wavelengths [nm], tone signal [Hz], wavelength ID, and estimated remaining battery life.

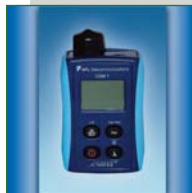


OPM 4-FTTx Series

Optical Power Meter with Wave ID and Set Reference

Equipped with wavelength filters and a dual photo detector, the OPM4-FTTx can separately and simultaneously measure 1490 and 1550 nm power at the ONT or other points in an FTTx PON. A large, dual-wavelength LCD display with backlight shows power at both wavelengths in units of dBm or μ W. A "set reference" feature may be used to compare 1490 or 1550 nm power levels in units of dB measured at different parts of the network.

The OPM4-FTTx is the only power meter from Noyes that includes an integrated Visual Fault Locator (VFL) - 650 nm (red) laser for short-range fault location and connectivity testing.



CSM1

Optical Power Meter with Set Reference Contractor Series

The CSM1 stores optical references for each calibrated wavelength and features multiple test Tone detection for fiber identification. A large LCD display with backlight shows measured power [dBm or μ W] or insertion loss [dB], calibrated wavelengths [nm], tone frequency [Hz], and indicates a low battery condition.



OPM 1 Series

Optical Power Meter

With only two controls – ON/OFF and wavelength – the OPM1 is our simplest to use optical power meter. Optical power in dBm and the calibration wavelength setting are displayed on an easy-to-read LCD display.

Noyes Optical Power Meters

Adapter caps are required for operation and must be ordered separately.
 All CSM1 models include a 2.5mm Universal adapter cap, user's guide and carry case.
 All OPM models include protective rubber boot, user's guide and carry case.
 All OPM5 models also include USB cable and Windows® compatible software.
 AC adapter is available for the OPM5 models (ordered separately), see table below.

Ordering Information

Model	Output Wavelengths (nm)									Detector Type	Measurement Range (dBm)	Units of Measure	Power	Features			
	660	780	850	980	1300	1310 ¹	1490	1550	1625					Set Ref.	PC Software & Storage	Wave ID Detect	Tone Detect ²
CSM1-1	•	•	•							Silicon	+6 to -70	dB, dBm, W	(2) AA	•			•
CSM1-2			•		•	•		•		Germ.	+6 to -60	dB, dBm, W	(2) AA	•			•
CSM1-3			•		•	•	•	•	•	InGaAs	+6 to -70	dB, dBm, W	(2) AA	•			•
CSM1-4			•	•		•	•	•	•	InGaAs	+26 to -50	dB, dBm, W	(2) AA	•			•
OPM1-2C			•		•	•		•		Germ.	+6 to -60	dBm	9 volt				
OPM1-3C			•		•	•		•	•	InGaAs	+6 to -70	dBm	9 volt				
OPM4-1D	•	•	•							Silicon	+6 to -70	dB, dBm, W	(2) AA	•		•	•
OPM4-2D			•		•	•	•	•		Germ.	+6 to -60	dB, dBm, W	(2) AA	•		•	•
OPM4-3D			•		•	•	•	•	•	InGaAs	+6 to -70	dB, dBm, W	(2) AA	•		•	•
OPM4-4D			•	•		•	•	•	•	InGaAs	+26 to -50	dB, dBm, W	(2) AA	•		•	•
OPM4-FTTx							•	•		InGaAs	+20 to -50	dB, dBm, W	(2) AA	•		•	•
OPM5-2D			•		•	•	•	•		Germ.	+6 to -60	dB, dBm, W	(2) AA, AC	•	USB	•	•
OPM5-3D			•		•	•	•	•	•	InGaAs	+6 to -70	dB, dBm, W	(2) AA, AC	•	USB	•	•
OPM5-4D			•	•		•	•	•	•	InGaAs	+26 to -50	dB, dBm, W	(2) AA, AC	•	USB	•	•

1 Optical Power Meters use a common calibration point for 1300nm (multimode) and 1310nm (single-mode).
 2 270 Hz, 330 Hz, 1 kHz and 2 kHz Tone detection.

Adapter Caps

OPM Ports, OFS 300-200, VS 300 Power Meter and Inspection

Noyes *standard* thread-on adapter caps are used to mate non-angled single-fiber and dual-fiber connectors to optical power meter ports on our OPM, T400, T500, and ORL 3 series test sets, and inspection ports on our OFS 300-200C and VS 300 microscopes.

Ordering Information

Part Number	Description	Part Number	Description
8800-00-0224	1.25 mm Universal Adapter Cap	8800-00-0210	ESCON Adapter Cap
8800-00-0214	2.5 mm Universal Adapter Cap	8800-00-0211	DIN 47256 Adapter Cap
8800-00-0200	FC Adapter Cap	8800-00-0205	FDDI (for meters) Adapter Cap
8800-00-0209	SC Adapter Cap	8800-00-0201	D4 Adapter Cap
8800-00-0202	ST Adapter Cap	8800-00-0223	1000 µm Adapter Cap
8800-00-0221	E-2000 Adapter Cap	8800-00-0226	MU Simplex Adapter Cap
8800-00-0204	Biconic Adapter Cap	8800-00-0230	MT-RJ (A side only) Adapter Cap
8800-00-0203	SMA Adapter Cap	8800-00-0231	MT-RJ (A side or B side) Adapter Cap
8800-00-0225	Simplex/Duplex Adapter Cap	8800-00-0232	Nickel Silver 2.5 mm Adapter Cap
8800-00-0212	Radial PFO/VFO Adapter Cap		



JDSU Inspection, Cleaning & Test Kits



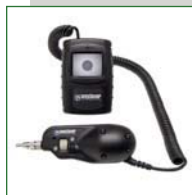
FIT Series

Inspection, Cleaning & Test Kits

JDSU inspection, cleaning, and test kits are designed specifically to meet the needs for today's fiber applications and environments, including LAN/WAN, CATV, TELCO, FTTx, and data centers. Pairing necessary test and inspection equipment gives technicians everything they need to ensure the best performance from optical connections in their networks.

Each kit is configured with the following:

- Inspection Scope and Display
- Optical Light Source and Power Meter
- Appropriate Reference Cables
- Visual Fault Locator
- IBC Cleaners for Bulkheads & Patchcords
- Micro Care WFW Lint Free Wipes
- Micro Care FCC2 Cleaning Fluid
- Deluxe Carrying Case



FBP & FBE Inspection Scopes

The JDSU video fiber inspection probe and handheld display system is used to inspect both "male" (patch cord) and "female" (bulkhead) sides of a fiber interconnect. Both the probe and display fit comfortably in a user's hand for portability and easy operation. Various interchangeable tips enable optimized inspection for different connector types and applications.

The FBP series probe provides dual (200x and 400x) magnification and a selection of over 350 different inspection tips. FBE series probes provide a more economical option with single magnification (200x or 400x) and a selection of common tip configurations. Both configurations are used in conjunction with a compact HD3 series, 1.8-inch TFT LCD display unit to provide a completely portable inspection solution for fiber technicians.



OLS-5 & OLS-6 Pocket Class Dual-Wavelength Optical Light Sources

The JDSU OLS-5 and OLS-6 Pocket Class Optical Light Sources measure dual wavelength in various single-mode or multimode applications alongside JDSU Pocket Class or SMART Optical Power Meters. The simple, three-button operation and easy-to-read display make them extremely user friendly. The OLS-5 Optical LED Source delivers multimode power and loss testing at 850 and 1300 nm, while the OLS-6 Optical Laser Source tests single-mode power and loss at 1310 and 1550 nm. Together with a JDSU Optical Power Meter (OLP), the automatic wavelength detection guarantees fast, error-free results.



OLP-5, OLP-6 & OLS-8 Pocket Class Optical Power Meters

The JDSU OLP-5, OLP-6, and OLP-8 are handy, pocket-sized optical power meters for quick, easy, and convenient field measurement of optical power and attenuation in fiber networks. They can be used independently for simple output tests, or with a light source for insertion loss measurements. The full functionality of the pocket-sized OLP range is realized when used with a JDSU optical light source (OLS). The OLP-5 is dedicated to local area network (LAN)/multimode or single-mode applications. The OLP-6 covers mostly the standard telecom applications, while the OLP-8 is dedicated to higher power applications like CATV networks, dense wavelength division multiplexing (DWDM) systems, and erbium doped fiber amplifier (EDFA) testing.



OLS-55 SMART Optical Laser Source

The handheld OLS-55 SMART Optical Laser Source suits every application from passive optical networks (PON) to Gigabit Ethernet (GigE) and offers the flexibility to test, install, and maintain single-mode and multimode fiber optic networks.



OLP-57 SMART Optical Power Meter

The OLP-57 SMART Optical Power Meter is used for installing, testing, and maintaining single-mode and multimode networks and cables. The SMART Optical Power Meters define a new industry standard with a unique, built-in auto-zeroing function for auto dark current compensation, which significantly increases accuracy.

JDSU Inspection, Cleaning & Test Kits



FFL-100 Visual Fault Locator

The Visual Fault Locator (VFL) is a ruggedized, handheld tool used to locate breaks and/or damage in optical fibers. It employs a powerful red laser designed to couple to optical connectors, providing the ability to locate areas in a fiber that have been damaged, broken, or tightly bent. The laser light will escape from the fiber at the exact site of the damage, causing the cable sheath to illuminate red. The FLASH control allows for two options: continuous illumination or flashing mode. The VFL (FFL-100) is fully assembled and comes with a soft-sided carrying case. Included are 2 batteries with > 80 hours of continuous-mode battery life. It is equipped with a 2.5 mm interface for compatibility with connectors such as SC, ST, and FC, while the 1.25 mm adapter interface (included) enables compatibility with small form-factor connectors such as LC and MU.



IBC Brand Connector Cleaners

IBC™ brand cleaners are dry cloth cleaners specifically designed to clean either side of a fiber connection. For cleaning connectors behind a bulkhead, simply insert the device into the bulkhead until a click sound is heard. For cleaning patch cords, the dust cap acts as an adapter to receive the connector ferrule. These tools are simple to use and highly effective at removing oil and dust contaminants.



Micro Care Cleaning Supplies

FCC2™ optical-grade solvent is designed specifically for cleaning optical connectors. Electrically conductive, this solvent is ideal and effective at removing stubborn forms of debris by dissipating static charges that bind particulate to connector end faces. Ideal for wet-to-dry cleaning procedures, this fast-drying solvent is nonflammable, nontoxic, noncorrosive, and safe to use.

Ordering Information

Part Number	Description
FIT-S001	LAN/WAN - OLS-5, OLS-6, OLP-5, VFL, 200X FBE Probe, Hardwired to HD3 Display. Tips: SC, LC, ST, U25M, U12M, cleaning materials, patch cords and deluxe carrying case.
FIT-S002	CATV/TELCO - OLS-6, OLP-8, VFL, 200X FBE Probe, Hardwired to HD3 Display. Tips: SC, LC, SC-APC, FC, U25M, U25MA, U12M, cleaning materials, patch cords and deluxe carrying case.
FIT-S003	FTTx - OLS-55, OLP-57, VFL, 200/400X FBP Probe, Hardwired to HD3 Display. Tips: SC, SC-APC, U25M, U25MA, cleaning materials, patch cords and deluxe carrying case.
FIT-S004	Data Center - OLS-5, OLS-6, OLP-5, VFL, 200/400X FBP Probe, Hardwired to HD3 Display. Tips: SC, LC, MTP, U25, U12, cleaning materials, patch cords and deluxe carrying case.
FIT-S005	Professional - OLS-6, OLP-8, VFL, 200/400X FBP Probe, HD3 Display. Tips: SC, LC, FC, ST, SC-APC, U25M, U25MA, U12M, cleaning materials, patch cords and deluxe carrying case.
FIT-S005-NT	Professional (No test) - 200/400X FBP Probe, HD3 Display. Tips: SC, LC, FC, ST, SC-APC, U25M, U25MA, U12M, cleaning materials, patch cords and deluxe carrying case.

JDSU Fiber Inspection & Test Systems



FIT Series

Integrated Fiber Inspection & Test System

The HP3-60 system, derived from the popular HD3 series, provides high-quality image resolution in a compact, portable design. The integrated power meter offers quick, easy, and convenient field measurement of optical power and attenuation. Easy push-button operation makes the device simple and straightforward, while the inspect-test process establishes optimal workflow practices.

The HP3-60-P4 system gives the added benefit of an integrated 400x patch cord inspection scope and kits are available that include a FBP probe scope and/or cleaning supplies.

Features & Benefits

- Inspects both sides of the fiber interconnect and accurately tests optical power with one device
- Integrated functions and features eliminate switching between multiple devices
- Input for FBP series probe scope and a separate patch cord inspection scope let users quickly inspect both sides of the fiber interconnect
- Integrated patch cord inspection scope eliminates the need for changing inspection tips, prevents misrouting and protects patch cords
- 1.8 inch TFT LCD to view clear, crisp, detailed images of fiber end faces with optimal resolution
- Integrated power meter (OLP-6) for single mode and multimode applications
- Modulation frequency detection lets users identify individual fibers
- Three-year calibration period
- Dual wavelength and automatic wavelength detection when used with a JDSU optical light source



FIT-HP3-60

Handheld display and integrated power meter only. Requires FBP Series probe scope with 4-pin output for bulkhead inspection capability.



FIT-HP3-60-P4

Uses the HP3-60 platform but includes an integrated 400x integrated patch cord inspection scope. A push button A/B switch allows the user to toggle between the patch cord and bulkhead (probe) view. Requires FBP Series probe scope with 4-pin output for bulkhead inspection capability.



FIT-S105

Kit that includes an FBP-P5 200/400x dual magnification probe scope with the HP3-60-P4 fiber inspection & test system with integrated patch cord inspection scope. Comes with a carry case and with or without connector cleaning materials.

Ordering Information

Part Number	Description
FIT-HP3-60	Handheld display with integrated power meter
FIT-HP3-60-P4	Handheld display with integrated power meter and 400x patch cord inspection scope
FIT-S105	Kit: Includes the FIT-HP3-60-P4, FBP-P5 200/400x probe scope and carry case
FIT-S105-C	Kit: Includes the FIT-HP3-60-P4, FBP-P5 200/400x probe scope, carry case and cleaning materials

Noyes Return/Loss Meters



TURBOTEST 500B Series

Single Mode Return/Loss Test Set

The TURBOTEST 500B Series offers the latest technology in a single fiber bi-directional loss and return loss testing. The T500B is a handheld fiber optic test and measurement instrument. It performs Optical Power, Optical Return Loss, and Optical Loss measurements. Five compact models are available, including the 3-wavelength (1310/1550/1625) T506B and (1310/1550/1490) T506B-FTTH. An optional dedicated digital talk option is available for full time/full duplex communication between test operators while testing other fibers in a bundle.

The T500B can store up to 1000 records (40 files) in any combination of its four operating modes and if any configuration other than TRIPLE wavelength is selected. If the configuration is TRIPLE wavelength, the T500B can store up to 500 records (40 files). Stored test results can be transferred to a PC for a complete report generation.

Powered by an internal rechargeable Lithium-Ion battery, the T500B comes with protective rubber boots, PC software and manual, AC adapter/charger, RS-232 serial cable, APC/UPC reference cable, adapter cap, mandrel, screwdriver, hex screwdriver, warranty registration card, user's guide, and carry case.

All Turbotest 500B models include APC/UPC test jumper, software, adapter cap, serial cable, hex driver, screwdriver, mandrel, AC adapter, protective rubber boot, user's guide and carry case. A headset is included when ordered with talk option. Specify either SC or FC connector type at the end of the part number (e.g. T504B-Y-SC is a 1310/1550 Turbotest w/ 1550nm Talk Set Option and an SC connector.)

Ordering Information

Part #	Description
T503B	TurboTest T500B Optical Loss/Return Loss Test Set for 1310 & 1550nm, +6 to -70 dBm Dynamic Range
T504B	TurboTest T500B Optical Loss/Return Loss Test Set for 1310 & 1550nm, +26 to -50 dBm Dynamic Range
T506B	TurboTest T500B Optical Loss/Return Loss Test Set for 1310, 1550 & 1625nm, +26 to -50 dBm Dynamic Range
T506B-FTTH	TurboTest T500B Optical Loss/Return Loss Test Set for 1310, 1490 & 1550nm, +26 to -50 dBm Dynamic Range

1550nm Talk Set Option

Add -Y to model number (e.g. T504B-Y is a 1310/1550nm TurboTest with 1550nm Talk Set Option)



ORL 3B

Multimode Return/Loss Test Set

The ORL 3B is a handheld fiber optic test and measurement instrument that offers two modes of testing. It performs optical return loss measurements (ORL mode) and operates as an optical power meter (OPM mode).

The ORL 3B can store up to 1000 records (40 files) in any combination of its two operating modes. With the supplied PC software, saved test results can be transferred to a PC for storage, printing, and analysis. The ORL3B operates from an internal rechargeable Lithium-Ion battery pack or external AC power adapter.

All ORL 3B models include software, adapter cap and carry case. AC adapters are available and sold separately. Specify either ST, SC or FC connector type at the end of the part number (e.g. ORL3B-MM-SC is an ORL3B with an SC connector.)

Ordering Information

Part #	Description
ORL3B-MM	ORL3B-MM Multimode Loss / Return Loss Test Set

Noyes Return/Loss Meters



Adapter Caps

OPM Ports, OFS 300-200, VS 300 Power Meter and Inspection

Noyes *standard* thread-on adapter caps are used to mate non-angled single-fiber and dual-fiber connectors to optical power meter ports on our OPM, T400, T500, and ORL 3 series test sets, and inspection ports on our OFS 300-200C and VS 300 microscopes.

Ordering Information

Part Number	Description	Part Number	Description
8800-00-0224	1.25 mm Universal Adapter Cap	8800-00-0210	ESCON Adapter Cap
8800-00-0214	2.5 mm Universal Adapter Cap	8800-00-0211	DIN 47256 Adapter Cap
8800-00-0200	FC Adapter Cap	8800-00-0205	FDDI (for meters) Adapter Cap
8800-00-0209	SC Adapter Cap	8800-00-0201	D4 Adapter Cap
8800-00-0202	ST Adapter Cap	8800-00-0223	1000 μ m Adapter Cap
8800-00-0221	E-2000 Adapter Cap	8800-00-0226	MU Simplex Adapter Cap
8800-00-0204	Biconic Adapter Cap	8800-00-0230	MT-RJ (A side only) Adapter Cap
8800-00-0203	SMA Adapter Cap	8800-00-0231	MT-RJ (A side or B side) Adapter Cap
8800-00-0225	Simplex/Duplex Adapter Cap	8800-00-0232	Nickel Silver 2.5 mm Adapter Cap
8800-00-0212	Radial PFO/WFO Adapter Cap		

T500B & ORL 3B Accessories

Part #	Description
4050-00-0118PR	AC Adapter 100-240 VAC to 18 VDC
6000-00-0023MR	USB to RS232 DB9M
3900-05-0001PE	Lithium Ion battery



Index Matching Block

When performing backreflection measurements it is important to eliminate the backreflection at the end of the cable under test. By touching the tip of the connector at the far side of the cable under test to the Index Matching Block, this backreflection is virtually eliminated.

Ordering Information

Part #	Description
IMBG	Index Matching Block with a 1.46 index of refraction.

Noyes OTDRs

OTDRs or Optical Time Domain Reflectometers are the ideal diagnostic tools to locate faults in an optical network. By sending a series of short pulses of light down a fiber and measuring the small amount of light that is reflected back, the OTDR can provide a graphical representation of the fiber run.



C860

QUAD OTDR and Certification Test Kit

- 850/1300nm & 1310/1550nm
- 22-26 dB Dynamic Range
- 1.5 m Event Dead Zone
- 250 m to 256 km Range Settings
- Integrated VFL & OPM
- Complete Tier 1 and Tier 2 Cert. Testing
- 6.5 & 3.8 inch Color Touch Screen
- SC/FC/ST/LC Adapters Available
- Rechargeable Li-Ion Battery (8 hours)
- 4 Hour Recharge Time
- 1000 Traces Internal Storage
- USB Connectivity
- 27.4 x 19.3 x 7.1 cm & 23 x 11 x 7 cm
- 2.3 kg & 0.9 kg

The Noyes C860 QUAD Certification and OTDR Test Kit from AFL Telecommunications includes one handheld C840 QUAD OLTS Tester and one C850 QUAD OTDR/OLTS with built-in auto test functionality. With this kit, technicians can troubleshoot and perform both Tier 1 and Tier 2 certification tests of MM and SM fiber networks, store results and create professional test reports.

The C850 is both a QUAD Certification Tester and full-featured QUAD OTDR in a compact case with a large transfective touch screen display suitable for both indoor and outdoor operation. The C850 features MM and SM OTDR capabilities, both single-mode and multimode Optical Light Sources (OLS), Visual Fault Locator (VFL, 650 nm), and an Optical Power Meter (OPM). As an OTDR, the C850 supports Full Auto, Expert (manual) and Real-Time test modes, simultaneous dual and single wavelength testing, and Event and Pass/Fail analysis based on default or user defined thresholds.

The Noyes C840 QUAD Certification Tester includes VFL, OPM, and both single-mode (Laser 1310/1550 nm) and multimode (LED 850/1300 nm) OLS. The C840 may be used alone as a traditional power meter and light source to measure fiber loss or as a visual fault locator to find fiber breaks.

The C840 and C850 can be used together to perform Tier 1 dual wavelength MM (850/1300nm) and SM (1310/1550nm) auto loss tests of one or two fibers in one or both directions; and measure both loss and length of the fibers and compare to industry standards (TIA/ISO/EN), applications and user defined thresholds values to certify the fibers. Either unit can be identified as the Main or Remote. The user may test two fibers at two wavelengths bi-directionally and store the results into the main unit. Featuring rich file naming, the Job setup wizard allows the user to define both the cable and fiber end locations, creating easily identifiable trace files, which are managed into Job and Cable folders.



M700 & M650

Compact Single Mode & QUAD OTDR

M700

- 1310/1550nm
- 36-38 dB Dynamic Range
- 0.9 m Event Dead Zone

M650

- 850/1300nm & 1310/1550nm
- 22-26 dB Dynamic Range
- 1.5 m Event Dead Zone

Both

- 250 m to 256 km Range Settings
- Integrated VFL & OPM
- 6.5 inch Color Touch Screen
- SC/FC/ST/LC Adapters Available
- Rechargeable Li-Ion Battery (8 hours)
- 4 Hour Recharge Time
- 1000 Traces Internal Storage
- USB Connectivity
- 27.4 x 19.3 x 7.1 cm
- 2.3 kg

Noyes OTDRs



M200

Handheld QUAD OTDR

- 850/1300nm &/or 1310/1550nm
- 22-26 dB Dynamic Range
- 1.5 m Event Dead Zone
- 250 m to 32 km Range Settings
- Integrated VFL
- 3.75 inch Color Touch Screen
- SC/FC/ST/LC Adapters Available
- Rechargeable Li-Ion Battery (6 hours)
- 3 Hour Recharge Time
- 1000 Traces Internal Storage
- USB Connectivity
- 23 x 11 x 7 cm
- 0.9 kg



OFL 280 & OFL 250

Handheld Single Mode OTDR

- | | |
|--|--------------------------------|
| OFL 280 | |
| • 1310/1550/1625nm (installation model) | • 28-30 dB Dynamic Range |
| • 1310/1490/1550nm (construction model) | • 1.3 m Event Dead Zone |
| OFL 250 | |
| • 1310/1550nm or 1310/1550/1625nm | • 1.5 m Event Dead Zone |
| • 26 dB Dynamic Range | |
| Both | |
| • 250 m to 256 km Range Settings | • 1000 Traces Internal Storage |
| • Integrated VFL, OPM & OLS | • USB Connectivity |
| • 3.5 inch Color Screen | • 19 x 11.2 x 4.7 cm |
| • SC/FC/ST/LC Adapters Available | • 0.8 kg |
| • Rechargeable Li-Ion Battery (12 hours) | |

The Noyes OFL 280 from AFL Telecommunications is a single-mode OTDR offered in two FTTx-optimized models. The 'installation and repair' model can operate at three wavelengths (1310/1550/1625 nm) on dark fibers, but automatically switches to a filtered, 1625 nm only mode if a live fiber is detected. In addition, the test port is equipped with a PON power meter, which allows the OFL 280 to detect live FTTx fibers, measure FTTx network power levels, and fault-locate live FTTx fibers with a single OTDR to network connection and a single automated test. A conventional three-wavelength (1310/1490/1550 nm) "construction" model is also available to certify or fault-locate dark fibers in FTTx or other single-mode fiber optic networks.



OFL 200

Handheld Singlemode OTDR

- 1550nm or 1625nm
- 23-24 dB Dynamic Range
- 2.0 m Event Dead Zone
- 70 km Max Range Setting
- Integrated VFL
- 3.5 inch Monochrome Screen
- SC/FC/ST/LC Adapters Available
- Rechargeable NiMH Battery (8 hours)
- 48 Traces Internal Storage
- Serial Port Connectivity
- 19 x 11.2 x 4.7 cm
- 0.6 kg

Noyes OTDRs

Ordering Information

Part Number	Description
C860	
C860-100-LP1-H2	C860 OTDR & Cert. Test Kit - 850/1300/1310/1550 source, SC/FC/LC adapter caps & Fiber Rings (SC/LC)
C860-100-LP1-H5	C860 OTDR & Cert. Test Kit - 850/1300/1310/1550 source, SC/FC/LC adapter caps & Fiber Rings (SC/ST)
C850	
C850-100-LP1-S1	C850 OTDR - 850/1300/1310/1550 source, SC/FC/LC adapter caps - soft case
C850-100-LP1-H1	C850 OTDR - 850/1300/1310/1550 source, SC/FC/LC adapter caps
C850-100-LP1-H2	C850 OTDR - 850/1300/1310/1550 source, SC/FC/LC adapter caps & Fiber Rings (SC/LC)
C850-100-LP1-H3	C850 OTDR - 850/1300/1310/1550 source, SC/FC/LC adapter caps, Fiber Rings (SC/LC) & Scope
C850-100-LP1-H4	C850 OTDR - 850/1300/1310/1550 source, SC/FC/LC adapter caps, Fiber Rings (SC/LC) & 2nd Battery
C850-100-LP1-H5	C850 OTDR - 850/1300/1310/1550 source, SC/FC/LC adapter caps & Fiber Rings (SC/ST)
C850-100-LP1-H6	C850 OTDR - 850/1300/1310/1550 source, SC/FC/LC adapter caps, Fiber Rings (SC/ST) & Scope
C850-100-LP1-H7	C850 OTDR - 850/1300/1310/1550 source, SC/FC/LC adapter caps, Fiber Rings (SC/ST) & 2nd Battery
M700	
M700-11-0901PR	M700 OTDR - 1310/1550nm source, SC/FC/LC adapter caps - soft case
M700-11-0902PR	M700 OTDR - 1310/1550nm source, SC/FC/LC adapter caps & Scope
M700-11-0903PR	M700 OTDR - 1310/1550nm source, SC/FC/LC adapter caps & 2nd Battery
M650	
M650-100-LP1-S1	M650 OTDR - 850/1300/1310/1550nm source, SC/ST/LC adapter caps - soft case
M650-100-LP1-H1	M650 OTDR - 850/1300/1310/1550nm source, SC/ST/LC adapter caps
M650-100-LP1-H2	M650 OTDR - 850/1300/1310/1550nm source, SC/ST/LC adapter caps & Fiber Rings (SC/LC)
M650-100-LP1-H3	M650 OTDR - 850/1300/1310/1550nm source, SC/ST/LC adapter caps, Fiber Rings (SC/LC) & Scope
M650-100-LP1-H4	M650 OTDR - 850/1300/1310/1550nm source, SC/ST/LC adapter caps, Fiber Rings (SC/LC) & 2nd Battery
M650-100-LP1-H5	M650 OTDR - 850/1300/1310/1550nm source, SC/ST/LC adapter caps & Fiber Rings (SC/ST)
M650-100-LP1-H6	M650 OTDR - 850/1300/1310/1550nm source, SC/ST/LC adapter caps, Fiber Rings (SC/ST) & Scope
M650-100-LP1-H7	M650 OTDR - 850/1300/1310/1550nm source, SC/ST/LC adapter caps, Fiber Rings (SC/ST) & 2nd Battery
M200	
M200-K-MM	M200 OTDR - 850/1300nm source, SC/ST adapter caps and soft case
M200-K-MM-PR	M200 OTDR - 850/1300nm source, SC/ST adapter caps and hard case
M200-K-SM	M200 OTDR - 1310/1550nm source, SC/FC adapter caps and soft case
M200-K-SM-PR	M200 OTDR - 1310/1550nm source, SC/FC adapter caps and hard case
M200-K-QUAD	M200 OTDR - 850/1300/1310/1550nm source, SC/FC/ST adapter caps and soft case
M200-K-QUAD-PR	M200 OTDR - 850/1300/1310/1550nm source, SC/FC/ST adapter caps and hard case
OFL 280	
OFL280-102U-ENG	OFL 280 FTTx Construction OTDR - 1310/1490/1550nm source, SC/UPC port and soft case
OFL280-102A-ENG	OFL 280 FTTx Construction OTDR - 1310/1490/1550nm source, SC/APC port and soft case
OFL280-103U-ENG	OFL 280 FTTx Installation OTDR - 1310/1550/1625nm source, SC/UPC port and soft case
OFL280-103A-ENG	OFL 280 FTTx Installation OTDR - 1310/1550/1625nm source, SC/APC port and soft case
OFL 250	
OFL2-26-0910PR	OFL 250 OTDR - 1310/1550nm source, SC/FC adapter caps and soft case
OFL2-26-0924PR	OFL 250 OTDR - 1310/1550/1625nm source, SC/FC adapter caps and soft case
OFL 200	
OFL2-20-0910	OFL 200 OTDR - 1550nm source, SC/FC adapter caps and soft case
OFL2-21-0910	OFL 200 OTDR - 1625nm source, SC/FC adapter caps and soft case

Noyes OTDRs



OTDR Test Cables

Fiber Rings

To measure the insertion loss of the near-end and/or far-end connection of a fiber optic link, an OTDR requires a launch and/or receive test cable, which essentially is a test jumper that can range from about 150m to over 1km in length. Because very long test jumpers are impractical to transport and use, Noyes offers coiled lengths of 50 mm multimode, 62.5 mm multimode, or single-mode fiber, packaged in compact rings, for use as OTDR test cables. Fiber Rings of 150 m of fiber are ideal for premises fiber network test applications. Fiber Rings of 500m and 1km of single-mode fiber are designed for broadband, long-haul fiber network test applications.

Ordering Information

Part Number	Configuration	Fiber Type	Fiber Length
FR1-M5-150-x1-x2	Standard, one fiber	Multimode, 50um	150 m (492 ft)
FR1-L5-150-x1-x2	Standard, one fiber, Laser Optimized	Multimode, 50um	150 m (492 ft)
FR1-M6-150-x1-x2	Standard, one fiber	Multimode, 62.5um	150 m (492 ft)
FR1-SM-150-y1-y2	Standard, one fiber	Single mode	150 m (492 ft)
FR1-SM-500-y1-y2	Standard, one fiber	Single mode	500 m (1640 ft)
FR1-SM-1000-y1-y2	Standard, one fiber	Single mode	1000 m (3280 ft)
FR3-M5-x1-MTRJ	MT-RJ near-end, A and B Fibers	Multimode, 50um	150 m (492 ft)
FR3-M6-x1-MTRJ	MT-RJ near-end, A and B Fibers	Multimode, 62.5um	150 m (492 ft)
FR3-SM-x1-MTRJ	MT-RJ near-end, A and B Fibers	Single-mode	150 m (492 ft)
FR1-M5-x1-E2000	E2000 to ST, SC, FC, etc., one fiber	Multimode, 50um	150 m (492 ft)
FR1-M6-x1-E2000	E2000 to ST, SC, FC, etc., one fiber	Multimode, 62.5um	150 m (492 ft)
FR1-SM-x1-E2000	E2000 to ST, SC, FC, etc., one fiber	Single-mode	150 m (492 ft)
FR1-M5-E2000-E2000	E2000 to E2000, one fiber	Multimode, 50um	150 m (492 ft)
FR1-M6-E2000-E2000	E2000 to E2000, one fiber	Multimode, 62.5um	150 m (492 ft)
FR1-SM-E2000-E2000	E2000 to E2000, one fiber	Single-mode	150 m (492 ft)

x1, x2 - connectors for multimode cables, specify type [ST, SC, ASC (angled SC), FC, AFC (angled FC), LC]

y1, y2 - connectors for single-mode cables, specify type [ST, SC, ASC (angled SC), FC, AFC (angled FC), LC]

Other connector types, fiber types and fiber lengths can be quoted upon request.

Other OTDR Accessories

Part Number	Description	Part Number	Description
OTDR Port Adapter Caps - All Models			
2900-50-0002MR	FC Adapter	2900-50-0004MR	ST Adapter
2900-50-0003MR	SC Adapter	2900-50-0005MR	LC Adapter
VFI Port Adapter Caps			
All Models (except OFL 250)		OFL 250	
2900-50-0007MR	2.5mm Universal	2900-53-0001MR	2.5mm Universal
2900-50-0010MR	1.25mm Universal	2900-53-0002MR	1.25mm Universal
OPM Port Adapter Caps - OFL 250 Only			
2900-52-0001MR	FC Adapter	2900-52-0003MR	ST Adapter
2900-52-0002MR	SC Adapter	2900-52-0004MR	LC Adapter
2900-52-0005MR	2.5mm Universal	2900-52-0006MR	1.25mm Universal
AC Adapters			
4050-00-0119PR	OFL 200	4050-00-0120PR	OFL 250
4050-00-0118PR	M Series & C860		
Batteries			
3900-04-0007ME	OFL 200 NiMH Battery Pack	3900-05-0001PE	M200 Li-Ion Battery Pack
3900-05-0003ME	OFL 250 Li-Ion Battery Pack	3900-05-0004ME	M700 Li-Ion Battery Pack
Battery Chargers			
4050-30-0005MR	OFL 250, M Series & C860 Battery Charger		
Data Cables			
6000-00-0003MR	OFL 200 Serial Cable	6000-00-0023MR	OFL 200 USB to RS232
6000-00-0024MR	OFL 250, M Series & C860 USB-Mini		
Hard Cases			
1400-01-0075PZ	M200 Hard Case	1400-01-0083PZ	M700 Hard Case
Miscellaneous			
1420-35-0009PR	M200 CF Slot Cover		

Specifications may change without notice

Noyes FTK Pro Installer Kit



FTK-01-0900PR

Complete Testing, Cleaning and Inspection Kit

The Noyes FTK Pro Installer Kit from AFL Telecommunications provides a wide selection of fiber optic testing, cleaning, and inspection equipment to enable technicians to install and maintain fiber optic networks. Available with multimode and single-mode test equipment, the kit also includes a broad array of cleaning and inspection equipment in a convenient tough injection-molded ABS carrying case. The Pro Installer Kit is ideal for TIA Tier 1 and Tier 2 testing of premises (building and campus) networks or certification and troubleshooting of FTTx PON networks.

Features & Benefits

- Clean, inspect, and test fiber optic networks
- Multimode and single-mode fiber ready
- Verify integrity of installed fiber networks
- Software to present network owners with written proof of a quality installation
- Convenient rugged hard carry case

Kit Contents

Part Number	Description
M200	Quad OTDR, 850/1300 nm MM, 1310/1550 nm SM
OPM 5-2D	Optical Power Meter (Wave ID, Set Reference, Data Storage)
OLS 4	Optical Light Source (LED and Laser)
OFS300-200C	Optical Fiber Scope (200x)
Fiber Rings (1 each)	FR1-L5-150-SC-ST (50/125 OM3 550 Laser Optimized)
	FR1-L5-150-SC-LC (50/125 OM3 550 Laser Optimized)
	FR1-L5-150-ST-LC (50/125 OM3 550 Laser Optimized)
	FR1-M6-150-SC-ST (62.5/125)
	FR1-M6-150-SC-LC (62.5/125)
	FR1-M6-150-ST-LC (62.5/125)
	FR1-SM-150-SC-ST (SM)
	FR1-SM-150-SC-LC (SM)
Adapters	FR1-SM-150-ST-LC (SM)
	SC, ST, LC for the OTDR/OLS ports (2 each)
	SC, ST, LC for the OPM Unit
Jumpers 2 meters in length (2 each)	2.5mm and 1.25mm Universal for OFS and for VFL on OTDR
	SC-ST (50/125 OM3 550 Laser Optimized)
	SC-LC (50/125 OM3 550 Laser Optimized)
	SC-ST (62.5/125)
	SC-LC (62.5/125)
	SC-ST (SM)
Bulkheads	SC-LC (SM)
	SC/SC, ST/ST, LC/LC
Cleaning Supplies	FiberWipes™ Mini-tub
	Cletope -SB with white tape
	Cletope replacement tape (white)
	FCC2 Fiber Connector Cleaner
	Connector Cleaning Tips (for cleaning in sockets): 2.5mm and 1.25mm
	One-Click Cleaner SC/ST/FC
Miscellaneous Accessories	One-Click Cleaner LC/MU
	(2) Mandrels: 62.5mm, 3mm jacket and 50mm, 3mm jacket
	Stylus pen for the M200 touch screen
	USB thumb drive, 1G
	Plastic parts boxes to hold adapters (Qty 3)
Report Software	Case to hold up to 12 jumpers (2 – 5 meters in length)
	Windows® compatible software and user guide

Fault Identifiers

Fault identifiers are power visible red laser sources designed to troubleshoot faults on fiber optic cables. Light generated by these units will escape from sharp bends and breaks in jacketed or bare fibers, as well as poorly mated connectors. They can identify faults in fiber optic jumper cables, distribution frames, patch panels, and splice trays.

Fault identifiers are also an excellent complement to an OTDR because they can locate faults inside the OTDR's dead-zone. Other applications include end-to-end continuity checks, identifying connectors in patch panels and fibers during splicing operations.



Noyes

VFI 2 Visual Fault Identifiers

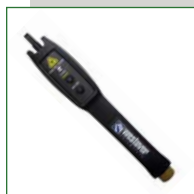
- 1 mW Output Power (635nm)
- Continuous and Flashing Output Modes
- 2.5mm Universal Adapter Cap (1.25mm available)
- 2 x AA Batteries (~60 Hours)
- 14.0 x 6.2 x 3.2 cm
- 200 g



Noyes

HiLite "Keychain" Visual Fault Identifiers

- 1 mW Output Power (635nm)
- Flashing Output
- 2.5mm Universal Adapter Cap (1.25mm available)
- 1 x AAA Battery (~4 Hours)
- 7.0 x 3.6 x 1.5 cm
- 50 g



Westover

FFL-100 Visual Fault Locator

- 1 mW Output Power (635nm)
- Continuous and Flashing Output Modes
- 2.5mm & 1.25mm Universal Adapter Cap
- 2 x AA Battery (~80 Hours)
- 22.0 x 3.5 x 3.0 cm
- 150 g



Ideal

VFF5 Visual Fault Finder

- 1 mW Output Power (635nm)
- Continuous and Flashing Output Modes
- 2.5mm Universal Adapter Cap
- 2 x AA Battery (~80 Hours)
- 20.3 x 2.2 cm
- 150 g



JDSU

OVF-1 "Pen-size" Visual Fault Finder

- 1 mW Output Power (635nm)
- Continuous and Flashing Output Modes
- 2.5mm Universal Adapter Cap (1.25mm available)
- 2 x AAA Battery (~40 Hours)
- 17.0 x 1.3 cm
- 50 g

Ordering Information

Part Number	Mfg.	Description	1.25mm Adapter
VFI 2	Noyes	VFI 2 w/ 2.5mm Adapter & Carry Case	2900-50-0010MR
HILITE	Noyes	HiLite w/ 2.5mm Adapter & Carry Case	2900-50-0010MR
FFL-100	Westover	FFL-100 w/ 2.5mm, 1.25mm Adapter & Carry Case	FFL-U12
VFF5	Ideal	VFF5 w/ 2.5mm Adapter & Carry Case	NA
BN 2252/01	JDSU	OVF-1 w/ 2.5mm Adapter & Carry Case	BN 2252/02

Continuity Testers



Noyes

MT Tracer 12-Fiber Visible Laser Source & Display

The MT Tracer is a compact multi-fiber visual fault identifier (red laser source) supporting 8 or 12 fiber MTP® connections. The user simply connects the 12-fiber cable directly to the unit. Fibers can be tested individually or all at once. By progressing sequentially through the fibers, cables can be quickly checked for polarity by verifying the proper order at the output.

The MT Tracer Display is a passive optical device designed to receive the light from the MT Tracer Source and provide an eye-safe method of viewing the red light. Identification is accomplished by expanding the output of the MT ferrule to a large easy to read panel - large enough to be read from several feet away.

Ordering Information

Part Number	Description
MT Tracer Kit	12-Fiber MT Tracer Kit Including the MT Tracer Source and MT Tracer Display
MT Tracer Source	MT Tracer, 12-Fiber Visible Laser Source
MT Tracer Display	MT Tracer, 12-Fiber Display
4050-00-0113	AC Adapter, 120VAC/ 3VDC

Miller

CCT 2001 Continuity Tester



The Miller Fiber Continuity Tester is a high intensity, long-lasting, green, LED light source used to check whether or not a fiber link can simply transmit light. It is not a laser, so it is not powerful enough to find fiber breaks but it does provide an inexpensive solution for quick continuity tests on fiber runs under 2 Km. Included 2.5mm, 1.25mm and MT-RJ adapters provide compatibility with the most common connector styles.

TruView

PSF Series Continuity Testers



The PSF22 continuity tester from TrueView offers quick continuity inspection of patch cords, fiber links and cable reels up to 2000 meters in length. The PSF22 pocket light source provides a brilliant, pre-focused white light that is easily detected. The unique ferrule grip design will center and securely hold any ST/SC/FC connector style with no special adapters required. The PSF-LC continuity tester is also available for inspecting LC cables.

Ordering Information

Part Number	Manufacturer	Description
CCT 2001	Miller	Continuity Tester with 1.25mm, 2.5mm and MT-RJ Style Adapters Included
PSF22	TrueView	2.5mm Continuity Tester
PSF-LC	TrueView	LC Continuity Tester

Noyes Optical Fiber Identifiers

Noyes Optical Fiber Identifiers are rugged, handheld, and easy-to-use fiber optic test instruments designed to detect optical signals transmitted through a single-mode fiber without disrupting traffic. During installation, maintenance, rerouting, or restoration; it is often necessary to isolate a specific fiber. By simply clamping an Optical Fiber Identifier onto a gently bent fiber, the unit will use the minute amount of light loss through the buffer/jacket to perform its function.

All models are equipped with a unique two-position head design configured to work with several different fiber types and constructions in seconds, without tools or adjustments. When testing coated fibers, the slim design allows easier access on a splice tray where the amount of work space is limited. The clamping trigger is ergonomically designed to fit the natural motion of the operator's hand. A high impact molded plastic case makes these models suitable for use outside plant or in the central office.



OFI200D

The OFI 200D Identifier runs on 2 x AA batteries and can perform thousands of tests before replacement is necessary. By simply clamping the OFI200D onto a gently bent fiber, the unit will indicate if there is [No Signal], [Tone], or [Traffic] and identify signal direction.



OFI400

The OFI 400 model Identifier is the next generation of Noyes Optical Fiber Identifiers. It has all the features of the OFI 200 model plus easy-to-read LCD display with Backlight, multiple [TONE] signal detection (270 Hz, 330 Hz, 1 kHz, or 2 kHz), power saving feature, and [Set Reference] feature. The OFI 400 model also measures and displays fiber core power or relative power on an LCD display.



OFI-FTTx

The OFI-FTTx is a rugged, hand-held optical fiber identifier designed to identify the presence or absence of an active Optical Network Terminal (ONT) on FTTx F2 fibers at the Fiber Distribution Hub (FDH). During a test, the F2 fiber does not have to be removed from service. Thus the OFI-FTTx can verify whether a splitter pigtail at the FDH is connected to an active circuit before it is disconnected for fault location or re-use. The OFI-FTTx can help verify FTTx network records and recover splitter pigtails and F2 fibers that are connected at the FDH but, in fact, are available for new customers.

When applied to a splitter pigtail at the FDH, the OFI FTTx will report either that the ONT is "Active" or "Not Detected." Time to complete each test is typically one second. The OFI-FTTx is compatible with 2 mm jumper cable containing standard single-mode fiber, such as SMF-28e[®], or bend insensitive fiber (BIF) with a 15 mm bend radius specification, such as AFL BendLite[™].

Ordering Information

Part Number	Description
OFI200D	OFI200D Optical Fiber Identifier, User's Guide and Carry Case
OFI400	OFI400 Optical Fiber Identifier, User's Guide and Carry Case
OFI-FTTX	OFI-FTTx Optical Fiber Identifier, User's Guide and Carry Case

Noyes Talk Sets



FTS Series

Fiber Optic Talk Sets

Fiber Optic Talk Sets are an inexpensive solution to meet your communication needs when testing multimode or single-mode fiber optic cables. Designed for voice communication over spare fibers, they provide full duplex, hands-free operation. Ease of use and compact size allow the operators to focus on the task at hand, rather than operating the talk set. Two talk set models are available, the FTS 1 for communication on single-mode or multimode fiber and the FTS 2 for long-range single-mode applications. The FTS 2 model includes a multiparty communication feature, which provides the connection of two talk sets at a common site to extend the range or to include three or more persons in the conversation.

Ordering Information

Part Number	Description
FTS 1-2	FTS 1-2 1300nm Talk Set for Short Range Multimode or Single Mode
FTS 2-1310	FTS 2-1310 1310nm Talk Set for Long Range Single Mode
FTS 2-1550	FTS 2-1550 1550nm Talk Set for Long Range Single Mode
4050-00-0111	AC Adapter 90-26VAC/ 9VDC
1300-10-0102	Headset and Adapter for the FTS1 and FTS2 Series Talk Sets
Includes two talk sets with carry case, headsets, protective rubber boots and user's guide. AC adapters are available. Specify connector type (e.g. FTS2-1310-SC)	



FTS-20C

Clip On Coupler

A clip-on coupler is available for bare fiber access where terminated ends are not available. The FTS 20C allows bi-directional communication from a center point on the fiber link or from an unterminated end. When used with a fiber talk set – such as the FTS2 – a user can access the intended talk fiber at a mid-point across the span, usually at the splice enclosure. The FTS-20C can also be used in conjunction with a Laser Source and Tone Detector to inject or detect 2 kHz test tones. It works at 1310, 1550, or 1625 nm. Coupling efficiency is approximately 18 dB.

Ordering Information

Part Number	Description
8000-10-0900	FTS-20C Clip-On Coupler

Noyes Variable Attenuators



VOA5 Series

Single Mode & Multimode Variable Attenuators

The VOA5-MM (multimode) and VOA5-SM (single-mode) are hand-held, field-rugged variable optical attenuators suited for a wide range of fiber link certification and production test applications. The VOA5 can be operated under local control (front panel keypad) or from a PC via a serial link using the supplied PC software. The VOA5 offers high bi-directional return loss and will maintain the set attenuation level when the unit is powered down.

The VOA5 is powered by (2) AA alkaline batteries or an AC power adapter. A NiCad rechargeable battery pack is an option.

Features & Benefits

- Multimode and single-mode models
- Hand-held (0.55 kg, 1.22 lb)
- High speed (0 to 60 dB < 3 s)
- Low insertion loss (< 2 dB, single-mode)
- Remote (SCPI) control via serial port
- LabVIEW® drivers provided
- AA Alkaline, NiCad, or AC powering
- Long battery life (> 16 hours)



SVA1

Single Mode Variable Attenuator

The SVA 1 Single-mode Variable Attenuator advances fiber optic field testing by offering superior performance in a low cost hand-held package. Utilizing a simplified, industry accepted attenuation technique, the innovative design of the SVA 1 offers superior resolution across the entire 60 dB dynamic range.

Intended for field testing during installation, new equipment turn-ups, or for performing routine maintenance, the SVA 1 is a complete, easy to use attenuator. Its unique features allow bi-directional signal transmission with no loss penalty.

The SVA 1 is available with a variety of connectors and reflectance options to better than 60 dB. With only two adjustments, COARSE and FINE, the SVA 1 is simple to understand and operate. The SVA 1 is suited for all singlemode applications including Telco, LANs, WANs, Video, and CATV.

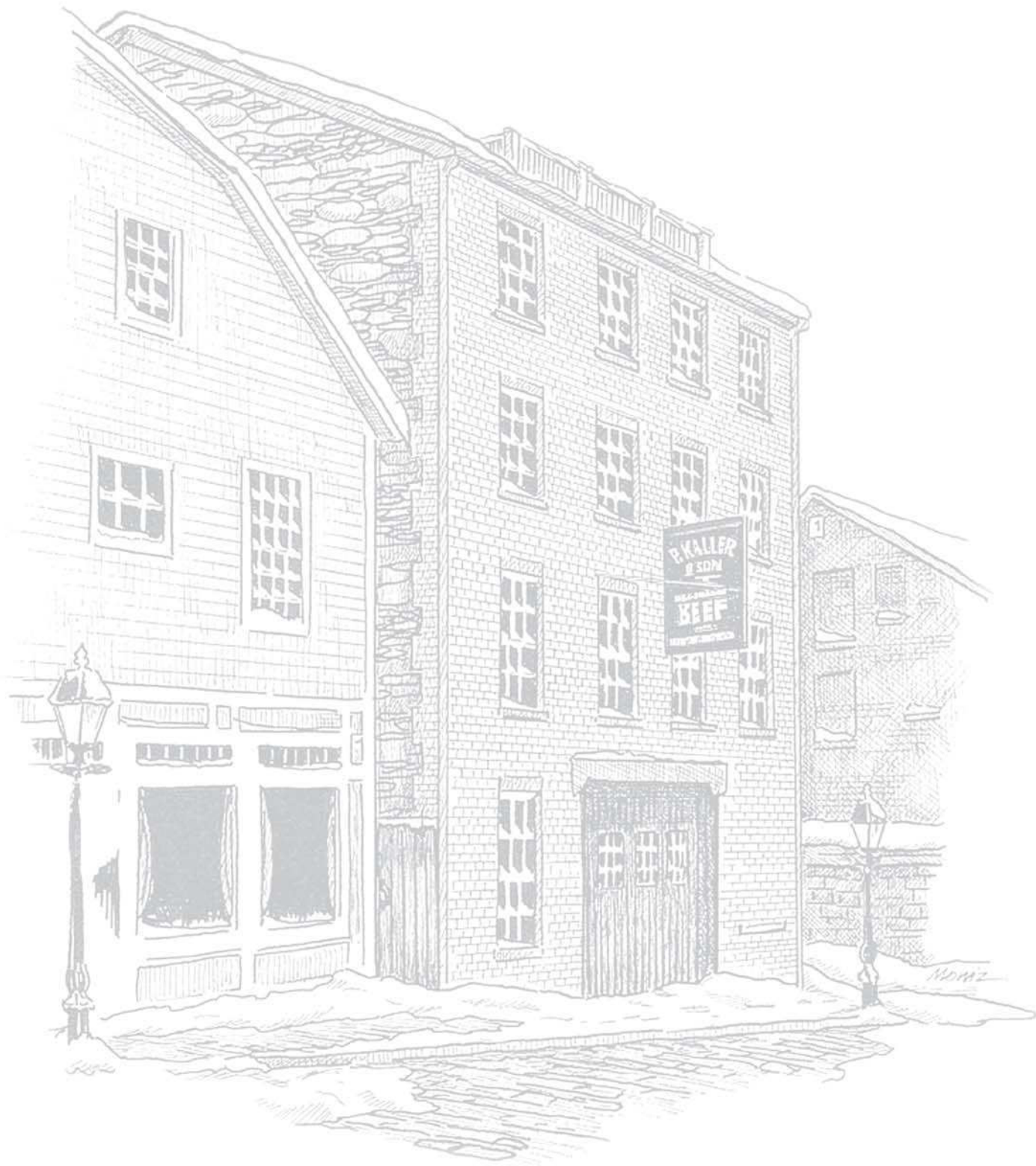
Features & Benefits

- 1310 and 1550 nm single-mode
- Lightweight
- Coarse and fine adjustments
- 60 dB dynamic range
- Better than 60 dB isolation available
- FC, SC, or ST Style Outputs
- Low insertion loss

Ordering Information

Part Number	Description
SVA 1	SVA 1 Single Mode Variable Optical Attenuator
VOA5 SM	VOA5 Single Mode Variable Optical Attenuator
VOA5 MM	VOA5 Multimode Variable Optical Attenuator
4050-00-0112PR	90-264 VAC/12VDC AC Adapter for VOA5 Series Attenuators

All models Include carry case and instruction card. * When ordering, specify connector type at end of model number (e.g. SVA1-FC). APC termination for the SVA1 is available for an additional charge.



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